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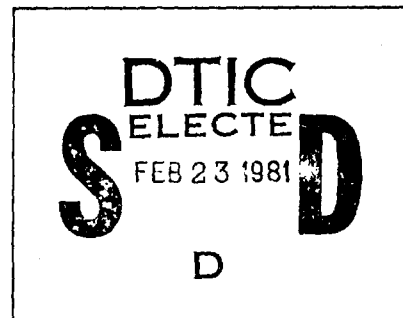
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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM															
1. REPORT NUMBER USAFETAC/DS- 81/005	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER															
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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)																	
18. SUPPLEMENTARY NOTES																	
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) <table border="0"> <tr> <td>*RUSSWO</td> <td>Daily temperatures</td> <td>Atmospheric pressure</td> </tr> <tr> <td>Snowfall</td> <td>Extreme snow depth</td> <td>Extreme surface winds</td> </tr> <tr> <td>Climatology</td> <td>Sea-level pressure</td> <td>Psychrometric summary</td> </tr> <tr> <td>Surface Winds</td> <td>Extreme temperature</td> <td>Ceiling versus visibility</td> </tr> <tr> <td>Relative Humidity</td> <td>*Climatological data</td> <td>(over)</td> </tr> </table>			*RUSSWO	Daily temperatures	Atmospheric pressure	Snowfall	Extreme snow depth	Extreme surface winds	Climatology	Sea-level pressure	Psychrometric summary	Surface Winds	Extreme temperature	Ceiling versus visibility	Relative Humidity	*Climatological data	(over)
*RUSSWO	Daily temperatures	Atmospheric pressure															
Snowfall	Extreme snow depth	Extreme surface winds															
Climatology	Sea-level pressure	Psychrometric summary															
Surface Winds	Extreme temperature	Ceiling versus visibility															
Relative Humidity	*Climatological data	(over)															
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is a six-part statistical summary of surface weather observations for Portland IAP, Portland, Oregon It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over)																	

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19. Percentage frequency of distribution tables
Dry-bulb temperature versus wet-bulb temperature
Cumulative percentage frequency of distribution tables

20. and dew point temperatures and relative humidity); and (F) Pressure
Summary (means, standard, deviations, and observation counts of
station pressure and sea-level pressure). Data in this report are
presented in tabular form, in most cases in percentage frequency of
occurrence or cumulative percentage frequency of occurring tables.

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USAFETAC/DS-81/CC5

ADE 850 011

ADA095329

**DATA PROCESSING DIVISION
USAFETAC
Air Weather Service (MAC)**

**REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS**

PORTLAND IAF OR
N 45 36 W 122 36 FLD ELEV 23 FT PDX

WBAN #21229
WMO #72698

PARTS A-F
FOR FROM HOURLY OBS: JAN 73 - DEC 79
FOR FROM DAILY OBS: JAN 48 - DEC 79

TIME CONVERSION GMT TO LST: -8

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This technical report has been reviewed and is approved for publication.

Wayne E. McCollom

Wayne E. McCollom, Chief
Technical Information Section
USAFETAC/15T

For the Commander

Walter S. Burgmann

Walter S. Burgmann
AWS Scientific and Technical
Information Officer

19 FEB 1961

U.S. AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at scheduled hourly intervals.

DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations. (Selected from record-special, local, summary of the day, remarks, etc.)

DESCRIPTION OF SUMMARIES

Preceding each section is a brief description of the data comprising each part of the Revised Uniform Summary of Surface Weather Observations and the manner of presentation. Tabulations are prepared from hourly and daily observations recorded by stations operated by the U. S. Services and some foreign stations using similar reporting practices.

Unless otherwise noted the following summaries are included for this station:

PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

PART B PRECIPITATION

SNOWFALL

SNOW DEPTH

PART C SURFACE WINDS

PART D CEILING VERSUS VISIBILITY

SKYCOVER

PART E DAILY MAX, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC-DRY VS WET BULB

MEAN & STD DEV
(DRY BULB, WET BULB, & DEW POINT)

RELATIVE HUMIDITY

PART F STATION PRESSURE

SEA LEVEL PRESSURE

STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations. 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 hours local standard time.

MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY _____

APRIL _____

JULY _____

OCTOBER _____

FEBRUARY _____

MAY _____

AUGUST _____

NOVEMBER _____

MARCH _____

JUNE _____

SEPTEMBER _____

DECEMBER _____

STATION NO ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	FIELD ELEV (FT)	CALL SIGN	WATER SURFACE
24229	PORTLAND IAP OREGON	N 45 36	W 122 36	23	PDX	72698

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		DPS PER DAY
			FROM	TO			FIELD (FT)	HT OAPD	
1	Portland Apt Oregon	NWS	Jan 48	Feb 62	N 45 36	W 122 36	22	2 1 1	14
2	Same	Same	Mar 63	Dec 64	Same	Same	23	Same	14
3	Same	Same	Jan 65	Sept 69	Same	Same	Same	Same	8
4		Same	Oct 69	Feb 70	Same	Same	Same	Same	14
5		Same	Mar 70	Dec 72	Same	Same	Same	Same	14
6		Same	Jan 73	Dec 79	Same	Same	Same	Same	14

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT OR REASON FOR
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1	Jan 48	Located on control tower	Anemometer (3-cup)	None	62 Ft	
2	Feb 49	Located on support on roof of office	F420	None	33 Ft	
3	8 Aug 58	Located 1/4 mile SSW center of apt	F420C	F312	20 Ft	
4	19 Apr 62	Same	Same	Same	Same	
5	26 Feb 63	Located 1/4 mile SE on the field	Same	Same	20 Ft	
6	30 Oct 63	1. Located 1/4 mi SSE on the field	Same	Same	25 Ft	
		2. Same	F005	Same	Same	
7	Mar 73	1. Located 1/4 mi SSE on the field	F420C	F312	20 Ft	
		2. Same	F005	Same	Same	

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PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

WEATHER CONDITIONS

24229

PORTLAND IAP OR

73-79

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIR	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	00-02		18.2	3.1	1.1		22.2	17.1	1.4			17.7	650
	03-05		23.0	3.5	2.0		27.6	19.8	.6			19.8	651
	06-08		21.7	3.2	1.8		25.7	20.3	.2			20.3	651
	09-11		20.3	2.3	2.3		23.5	19.2	1.1			19.8	651
	12-14		19.7	2.0	1.7	.2	22.8	14.9	4.3			17.7	650
	15-17		20.7	1.2	2.3	.3	24.3	12.4	4.9	.2		16.1	651
	18-20		19.5	1.7	1.2		22.5	11.1	3.5			12.6	650
	21-23		18.9	2.8	2.5		23.3	12.4	2.8			14.3	651
TOTALS			20.3	2.5	1.9	.1	24.0	15.9	2.4	.0		17.3	5205

GLOBAL CLIMATOLOGY BRANCH
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AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24229 PORTLAND IAP OR

73-79

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	00-02		22.9	.3	1.4		24.2	10.8	1.5			13.8	590
	03-05		24.2	.8	.8		25.9	12.5	1.4			12.5	591
	06-08		25.4	.3	.8		26.6	17.5	1.5			17.5	590
	09-11		23.7	.2	.3		23.9	16.1	3.2			17.1	591
	12-14		24.9		.2		24.9	8.0	4.6			10.0	591
	15-17		27.7	.2			27.9	5.8	2.7			7.3	591
	18-20		24.3				24.3	6.1	2.0			7.0	589
	21-23		22.8	.2	.7		23.7	5.8	1.7			6.3	591
TOTALS			24.5	.3	.5		25.2	10.3	2.3			11.1	4724

GLOBAL CLIMATOLOGY BRANCH
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AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24229

PORTLAND IAP OR

73-79

MAR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAR	00-02		19.4		.2		19.5	2.9	.2			3.1	651
	03-05		21.2		.8		21.7	6.8				6.8	651
	06-08		22.0		.5		22.0	13.4	.5			13.4	651
	09-11		20.3			.2	20.3	8.4	2.8			10.0	651
	12-14		20.1		.2		20.3	2.3	.6			2.8	651
	15-17		18.9		.2		18.9	1.8				1.8	651
	18-20		16.1		.2	.2	16.3	1.7	.3			2.0	651
	21-23		15.8		.2		15.8	2.3	.5			2.8	651
TOTALS			19.2		.3	.1	19.4	5.0	.6			5.3	5208

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24229

PORTLAND IAP OR

73-79

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	00-02		16.2				16.2	2.1				2.1	630
	03-05		16.1				16.1	6.2				6.2	629
	06-08		18.6				18.6	9.2	2.9			11.1	630
	09-11		15.2				15.2	4.6	2.5			7.0	630
	12-14	.2	16.7			.2	16.7	1.3	.2			1.4	630
	15-17	.5	16.7			.2	16.7	.8	.2			1.0	630
	18-20		12.4				12.4	1.6				1.6	629
	21-23		15.1				15.1	.8				.8	630
TOTALS		.1	16.1			.1	16.1	3.3	.7			3.9	5038

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24229

PORTLAND IAP OR

73-79

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	00-02		10.0				10.0	.6				.6	651
	03-05		14.6				14.6	2.3	.3			2.3	651
	06-08		14.1				14.1	3.2	2.2			4.8	651
	09-11		14.0				14.0	.5	1.4			1.8	651
	12-14	.3	13.8			.2	13.8	.3				.3	651
	15-17	.3	15.5				15.5	.5	.2			.6	651
	18-20	.5	14.0				14.0	.9				.9	651
	21-23	.2	12.4				12.4	.8				.8	651
TOTALS		.2	13.6			.0	13.6	1.1	.5			1.5	5208

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AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24229

PORTLAND IAP OR

73-79

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	00-02		6.4				6.4	1.9				1.9	629
	03-05		7.2				7.2	2.1	.2			2.2	629
	06-08		7.8				7.8	1.1	1.7			2.7	629
	09-11		7.3				7.3	.6	2.1			2.7	630
	12-14	.2	9.0				9.0	1.0	.5			1.4	630
	15-17	.2	7.5				7.5	.6	.2			.8	630
	18-20	.2	7.9				7.9	1.1				1.1	630
	21-23		5.4				5.4	1.4	.3			1.7	630
TOTALS		.1	7.3				7.3	1.2	.6			1.8	5037

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AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24229

PORTLAND IAP OR

73-79

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	00-02	.3	2.9				2.9	.9				.9	651
	03-05	.5	4.8				4.8	1.4	.6			1.8	651
	06-08	.2	6.3				6.3	5.5	4.6			8.8	651
	09-11	.3	3.5				3.5	1.2	4.0			5.1	651
	12-14	.2	3.7				3.7	.3	1.4			1.7	651
	15-17	.3	4.8				4.8	.3	.5			.8	651
	18-20		4.3				4.3	.9				.9	651
	21-23	.6	4.3				4.3	.6	.2			.6	651
TOTALS		.3	4.3				4.3	1.4	1.4			2.6	5207

GLOBAL CLIMATOLOGY BRANCH
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WEATHER CONDITIONS

24229

PORTLAND IAP OR

73-79

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	00-02	.3	7.1				7.1	2.2	.5			2.6	651
	03-05	.3	8.4				8.4	7.2	2.2			8.4	651
	06-08		9.8				9.8	13.7	8.1			18.6	651
	09-11		8.0				8.0	5.5	10.1			14.3	651
	12-14	.2	7.5				7.5	1.4	2.3			3.4	651
	15-17	.5	8.8				8.8	1.7	1.4			2.6	651
	18-20	.6	7.7				7.7	1.8	.3			2.2	651
	21-23	.5	6.0				6.0	2.0	.6			2.6	651
TOTALS		.3	7.9				7.9	4.4	3.2			6.8	5208

GLOBAL CLIMATOLOGY BRANCH
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WEATHER CONDITIONS

24229

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SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-02		8.1				8.1	5.7	2.5			6.7	630
	03-05		10.2				10.2	13.7	2.7			14.6	630
	06-08		11.4				11.4	23.7	5.4			25.1	630
	09-11		8.9				8.9	11.6	9.7			18.3	629
	12-14		7.8				7.8	1.7	4.0		.2	5.7	629
	15-17	.2	8.4				8.4	1.1	.8			1.9	630
	18-20		7.5				7.5	1.4	1.3			2.7	630
	21-23		6.7				6.7	2.2	1.0			2.7	630
TOTALS		.0	8.6				8.6	7.6	3.4		.0	9.7	5038

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24229

PORTLAND IAP OR

73-79

OCT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	00-02		14.2				14.2	14.2	2.2			14.6	650
	03-05		14.8				14.8	25.1	1.4			25.4	650
	06-08		14.1				14.1	36.7	4.0			37.8	651
	09-11		11.4				11.4	21.8	14.1			33.2	651
	12-14	.2	12.9				12.9	3.8	11.8			14.5	650
	15-17		12.3				12.3	2.9	5.8			8.3	651
	18-20		13.4				13.4	3.2	4.3			7.5	651
	21-23		11.8				11.8	4.9	3.2			6.3	651
TOTALS		.2	13.1				13.1	14.1	5.9			18.5	5205

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24229

PORTLAND IAP OR

73-79

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	00-02		25.6		1.3		26.1	20.6	1.4			20.6	630
	03-05		22.2		1.3		23.5	25.9	1.4			25.9	630
	06-08		19.8		.6		20.5	30.3	2.2			30.5	630
	09-11		19.1	.2	1.0		19.7	23.7	4.5			25.2	628
	12-14		19.4		.6	.2	20.0	12.1	7.6			17.1	630
	15-17		21.0	.2	.6	.2	21.7	8.7	4.4			12.7	630
	18-20	.2	20.0	.3	1.1		21.4	11.4	3.2	.2		13.3	630
	21-23		21.4	.3	1.0		22.5	14.4	2.4	.3		15.1	630
TOTALS		.0	21.1	.1	.9	.1	22.0	18.4	3.4	.1		20.1	5038

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24229 PORTLAND IAP OR

73-79

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	00-02		25.2		.8		25.5	24.4	3.8			24.4	651
	03-05		27.8		.2		28.0	25.2	3.1			25.3	651
	06-08		31.7		.6		32.0	23.1	2.6			23.2	650
	09-11		24.0		.9		24.7	24.7	6.6			27.0	651
	12-14		26.0		1.1		26.6	17.2	6.3			20.9	651
	15-17		25.4		1.1		26.2	15.4	7.1			19.9	649
	18-20		23.9		.9		24.7	15.7	5.9			16.7	648
	21-23		25.8		.9		26.5	19.8	5.1			20.2	648
TOTALS			26.2		.8		26.8	20.7	5.1			22.2	5199

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

24229 PORTLAND IAP OR 73-79 ALL
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	SLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		20.3	2.5	1.9	.1	24.0	15.9	2.4	.3		17.5	5205
FEB			24.5	.3	.5		25.2	10.3	2.3			11.1	4724
MAR			19.2		.3	.1	19.4	5.0	.6			5.3	5208
APR		.1	16.1			.4	16.1	3.3	.7			3.9	5038
MAY		.2	13.6			.0	13.6	1.1	.5			1.5	5208
JUN		.1	7.3				7.3	1.2	.6			1.8	5037
JUL		.3	4.3				4.3	1.4	1.4			2.6	5207
AUG		.3	7.9				7.9	4.1	3.2			6.8	5208
SEP		.0	8.6				8.6	7.6	3.4		.0	9.7	5038
OCT		.0	13.1				13.1	14.1	5.9			18.5	5205
NOV		.0	21.1	.1	.9	.1	22.0	18.4	3.4	.1		20.1	5038
DEC			26.2		.6		26.8	20.7	5.1			22.2	5199
TOTALS		.1	15.2	.2	.4	.0	15.7	8.6	2.5	.0	.0	10.1	61315

PART A

ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WEAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than 5/8 mile.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

XXXXXXXXXXXXXXXXXXXX
WEATHER CONDITIONS
XXXXXXXXXXXXXXXXXXXX
ATMOSPHERIC PHENOMENA

2022 PORTLAND IAP OR 48-79 ALL
STATION STATION NAME YEARS MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY	.1	69.0	5.4	21.3	.5	75.3	47.1	22.5	1.6		51.9	992
FEB		.4	68.7	2.1	9.3	1.2	70.0	43.1	25.9			49.0	974
MAR		.8	68.3	.1	9.2	3.3	69.1	30.3	22.0	.1		37.0	992
APR		3.2	62.0		2.7	2.6	62.0	22.5	17.7			31.3	960
MAY		4.3	52.6		.8	2.5	52.6	17.1	13.3			24.1	992
JUN		2.9	42.8			.3	42.8	13.3	11.9		.1	21.3	960
JUL		2.0	72.3				22.3	10.7	11.9			18.0	992
AUG		3.2	29.4			.2	29.4	19.6	26.3		.2	34.6	992
SEP		2.1	37.3			.4	37.3	43.6	41.4		.1	56.9	960
OCT		1.4	52.8		.3	.7	52.7	62.3	51.2			71.1	992
NOV		1.3	66.9	.3	2.9	.6	67.6	59.8	32.8	.2		63.4	960
DEC		.1	75.2	1.7	12.7	.6	78.4	52.2	23.8	.6		56.5	992
TOTALS		1.9	53.9	.8	4.9	1.1	55.0	35.1	25.1	.2	.0	42.9	11688

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

C PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

- *1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.
- *2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	".00"	equals none for the month (hundredths)
EXTREME DAILY SNOWFALL	".0"	equals none for the month (tenths)
EXTREME DAILY SNOW DEPTH	"0"	equals none for the month (whole inches)

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

* Values for means and standard deviations do not include measurements from incomplete months.

- NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
- (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
- (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

Beginning thru 1945	at 0800LST
Jan 46-May 47,	at 1230GMT
Jun 57-present	at 1200GMT

U. S. Navy and National Weather Service (USWB)

Beginning thru Jun 52	at 0030GMT
Jul 52-May 57	at 1230GMT
Jun 57-present	at 1200GMT

3 GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
PRECIPITATION
(FROM DAILY OBSERVATIONS)

24229

PORTLAND IAP OR

48-79

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02 05	.06-10	11-25	.26 50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1 0.4	0.5 1.4	1.5 2.4	2.5 3.4	3.5 4.4	4.5 6.4	6.5 10.4	10.5 15.4	15.5 25.4	25.5 50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4 6	7 12	13-24	25-36	37-48	49 60	61 120	OVER 120					
JAN	24.9	11.9	3.9	11.4	8.4	14.4	12.7	8.3	4.1					63.2	992	6.04	12.83	1.02
FEB	30.0	11.9	4.6	10.3	7.6	15.8	11.3	6.6	1.8					58.1	904	4.19	9.46	.78
MAR	31.0	12.1	3.6	12.2	8.9	15.2	12.3	4.1	.5					56.9	991	3.64	7.52	1.10
APR	38.0	15.1	4.3	11.3	7.3	14.3	7.5	1.9	.4					46.9	960	2.30	4.72	.53
MAY	47.4	14.8	4.1	9.1	5.1	10.1	6.8	2.1	.5					37.8	992	2.38	4.30	.57
JUN	57.2	14.8	3.9	5.9	5.1	6.7	4.6	1.8	.1					28.0	960	1.44	3.58	.03
JUL	77.7	10.1	2.4	3.5	2.3	1.9	1.5	.5						12.2	992	.48	2.01	.00
AUG	70.6	11.5	1.5	4.7	2.7	4.4	2.6	1.5	.4					17.9	992	1.12	4.53	TRACE
SEP	62.7	11.4	3.8	4.0	4.1	6.5	4.9	2.4	.4					25.9	960	1.66	3.86	TRACE
OCT	47.3	11.8	1.8	7.9	4.8	11.5	9.5	4.5	.9					40.9	992	3.19	7.00	.36
NOV	32.4	8.6	4.1	9.1	7.6	14.5	13.2	7.9	2.6					59.0	960	5.31	11.55	.77
DEC	21.5	14.4	3.9	9.4	7.4	15.3	14.5	10.7	2.9					64.1	992	6.31	11.12	1.38
ANNUAL	45.1	12.4	3.5	8.2	5.9	10.9	8.4	4.4	1.2					42.6	11687	37.76		

USAFETAC FORM 0-15.5 (OL A)
OCT 78

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

PRECIPITATION

(FROM DAILY OBSERVATIONS)

24229 PORTLAND IAP OR

48-79

STATION

STATION NAME

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN	FEB	MAR.	APR.	MAY	JUN	JUL	AUG	SEP	OCT	NOV.	DEC	ALL MONTHS
48	2.48	.78*	1.36	.52	1.07	.66	.17	.90	1.11	.39	1.28	.81	2.48
49	.31	1.78	.58	.23	1.15	.25	.51	.15	.73	1.00	1.56	.59	1.78
50	1.98	1.37	.70	.71	.29	.72	.24	.61	.74	.80	2.43	.99	2.43
51	1.19	.90	.89	.60	.53	.01	.15	.02	.68	1.31	.74	1.01	1.31
52	.69	.84	.60	.58	.49	.52	TRACE	.18	.27	.28	.48	1.11	1.11
53	1.47	.67	.53	.40	.93	.55	.03	.56	.73	1.24	1.13	1.72	1.72
54	1.75	1.21	.97	.66	.53	.81	.84	.64	.21	.92	.92	.58	1.75
55	.37	.75	.63	1.23	.61	.63	.28	TRACE	1.30	1.66	1.57	1.99	1.99
56	1.93	.99	.65	.20	.45	.54	.01	1.29	.39	.99	.64	.58	1.93
57	.54	1.30	1.00	.37	.39	.29	.15	.36	.34	.79	.77	1.28	1.30
58	.86	.85	.52	.59	.69	1.70	TRACE	.02	.21	.36	.90	1.23	1.70
59	1.25	.90	.80	.15	.70	.52	.27	.09	1.00	1.65	.81	1.11	1.65
60	.89	.92	1.06	.68	.53	.40	TRACE	.20	.37	.45	2.31	.79	2.31
61	.88	1.72	1.02	.95	.55	.28	.38	.52	.34	.76	1.24	1.28	1.72
62	.39	.46	1.23	1.03	.46	.46	.06	.48	.78	.79	1.57	.66	1.57
63	1.16	.92	1.07	.47	1.04	.42	.37	.53	.27	.81	1.27	.88	1.27
64	1.54	.16	.53	.27	.25	.40	.46	.21	.51	.27	1.12	1.80	1.80
65	1.48	.54	.43	1.01	.50	.38	.28	.42	.01	.50	1.20	1.79	1.79
66	1.32	.34	1.00	.21	.30	.40	.81	.40	.44	.61	1.37	1.56	1.56
67	1.12	.39	.83	.48	.41	.44	.00	TRACE	.22	1.28	.42	.62	1.28
68	.96	1.38	.40	.27	1.47	.97	.13	1.20	.55	.82	1.38	1.27	1.47
69	1.02	.76	.29	.60	.45	.87	.05	.04	2.23	.66	1.87	1.30	2.23
70	2.03	1.42	.89	.55	.51	.20	.04	TRACE	.40	.61	1.22	1.37	2.03
71	1.00	.50	.82	1.17	.32	.82	.14	.57	1.48	.61	.82	1.19	1.48
72	1.73	.97	.78	.44	.55	.37	.32	.46	.84	.17	.87	1.23	1.73
73	1.15	.46	.41	.40	.64	.49	.06	.89	.65	.71	2.42	.94	2.42
74	1.98	.73	.82	.33	.91	.26	.81	.04	.17	1.21	1.19	1.05	1.98
75	1.53	.77	.67	.44	.71	.48	.32	.69	TRACE	.77	.88	.94	1.53
76	.91	1.32	.66	.48	.42	.35	.45	.94	.46	.50	.29	.40	1.32
77	.55	.54	.42	.25	.60	.55	.25	1.47	.64	.39	1.01	1.84	1.84
MEAN													
S. D.													
TOTAL OBS													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

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USAF ETAC FORM 3-64

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

XXXXXXXXXXXXXXXXXXXX
EXTREME VALUES
XXXXXXXXXXXXXXXXXXXX
MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

24229 PORTLAND IAP OR
STATION STATION NAME

48-79

YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH YEAR	JAN	FEB	MAR.	APR	MAY	JUN.	JUL.	AUG.	SEP	OCT	NOV	DEC	ALL MONTHS
48	5.87	5.00*	4.24	3.41	3.76	1.42	.32	1.55	3.28	2.39	6.89	8.06	*46.19
49	1.02	9.46	2.78	.72	2.12	.68	.91	.24	1.66	2.35	5.56	4.86	32.36
50	10.10	5.77	4.76	2.74	.57	2.50	.50	.72	1.45	7.00	8.67	6.31	51.09
51	7.71	5.02	3.86	1.14	1.75	.03	.28	.02	2.55	6.81	5.31	5.06	39.54
52	4.40	3.59	3.82	1.45	.78	2.23	TRACE	.18	.33	.72	1.44	6.76	25.70
53	12.83	3.71	3.82	1.89	3.45	2.04	.03	1.79	1.16	3.56	6.46	7.85	48.59
54	8.95	4.57	2.55	2.54	1.83	3.58	1.24	1.92	.85	3.40	5.09	5.01	41.53
55	2.30	3.37	3.06	4.72	1.24	1.83	.89	TRACE	2.86	6.69	7.34	10.14	44.46
56	11.66	3.03	4.30	.53	2.50	2.03	.01	2.56	1.12	5.10	1.47	3.64	37.95
57	2.23	4.14	7.52	1.84	1.97	.73	.19	.69	.49	3.53	3.07	6.15	32.55
58	6.56	5.13	2.20	3.33	1.35	3.04	TRACE	.02	1.05	1.49	6.39	5.06	35.62
59	7.57	4.18	3.22	.92	2.89	2.38	.56	.09	2.81	3.51	3.30	3.08	34.51
60	3.93	4.00	4.77	3.33	3.37	.52	TRACE	1.00	1.37	2.39	8.63	2.61	35.92
61	4.50	8.92	6.04	3.59	2.80	.47	.42	1.07	.64	2.89	4.67	5.94	41.95
62	1.58	3.43	4.25	3.15	2.56	.78	.06	1.49	1.66	3.31	9.32	2.59	34.18
63	2.27	3.48	4.69	3.78	2.74	1.71	1.17	.87	.75	3.04	5.65	3.60	33.75
64	9.51	.78	2.30	1.56	1.04	1.96	.68	.90	1.61	.84	6.78	9.92	37.88
65	7.44	2.22	1.10	2.20	1.31	.83	.44	.73	.01	2.03	5.64	7.34	31.29
66	5.74	1.70	4.71	.85	.91	1.02	1.19	.59	1.70	3.06	5.50	6.89	33.86
67	6.21	2.02	4.31	2.17	1.02	1.01	.00	TRACE	.76	4.72	2.27	4.75	29.24
68	4.58	6.64	2.68	1.91	3.63	2.20	.14	4.53	2.20	5.03	6.23	11.12	50.89
69	7.60	3.14	1.13	2.28	1.61	2.99	.14	.04	3.86	3.02	3.18	8.12	37.11
70	11.81	4.77	2.58	2.94	1.55	.49	.05	TRACE	1.10	2.85	5.72	7.49	41.35
71	7.09	3.36	4.87	2.72	1.00	1.76	.26	.95	3.53	2.37	5.76	8.05	41.72
72	9.71	4.08	5.41	2.98	2.23	.68	.56	.67	3.06	.87	3.78	8.79	38.82
73	3.69	1.94	2.45	1.33	1.43	1.45	.06	1.41	3.29	3.14	11.55	9.93	41.67
74	8.51	4.61	5.65	1.76	1.74	.80	2.01	.07	.21	2.14	6.73	6.05	40.28
75	8.43	4.75	3.45	1.88	1.35	1.13	.43	2.10	TRACE	4.76	4.10	6.68	39.06
76	5.14	4.92	2.93	2.34	2.29	.78	.66	3.29	.73	1.48	.77	1.38	26.71
77	1.07	2.49	3.50	1.04	4.30	.83	.39	3.26	3.33	2.28	5.56	8.98	37.03
MEAN													
S.D.													
TOTAL OBS													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

3

(FROM DAILY OBSERVATIONS)

48-79

YEARS

1

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8

3 GLOBAL CLIMATOLOGY BRANCH
 1 USAFETAC
 AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
 SNOWFALL
 (FROM DAILY OBSERVATIONS)

24229 PORTLAND IAP OR

48-79

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	78.6	12.9	2.6	2.7	.8	1.2	.3	.6	.2					8.5	992	4.3	41.4	.0
FEB	90.7	6.0	1.5	1.1	.3	.1	.1	.1						3.3	904	.9	13.2	.0
MAR	91.4	7.0	.7	.6	.3									1.6	991	.4	5.3	.0
APR	97.4	2.6													960	TRACE	TRACE	.0
MAY	99.4	.6													992	TRACE	TRACE	.0
JUN	100.0														960	.0	.0	.0
JUL	100.0														992	.0	.0	.0
AUG	100.0														992	.0	.0	.0
SEP	100.0														960	.0	.0	.0
OCT	99.7	.3													992	TRACE	TRACE	.0
NOV	97.1	2.1	.3	.1	.1	.1		.1	.1					.8	960	.6	8.2	.0
DEC	67.2	9.4	.9	1.1	.7	.4	.1	.1	.1					3.4	902	1.7	15.7	.0
ANNUAL	95.1	3.4	.5	.5	.2	.1	.0	.1	.0					1.5	11687	7.9		

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNOWFALL

(FROM DAILY OBSERVATIONS)

24229

PORTLAND IAP OR

48-79

STATION

STATION NAME

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB	MAR	APR.	MAY	JUN.	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
48	.9	.3	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.9
49	5.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	5.0
50	7.5	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5
51	.2	TRACE	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.8
52	4.1	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	4.1
53	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
54	4.9	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.8	4.9
55	1.0	.8	.8	TRACE	.0	.0	.0	.0	.0	TRACE	4.5	1.5	4.5
56	9.3	.7	1.8	.0	.0	.0	.0	.0	.0	.0	.0	1.8	9.3
57	2.8	1.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	2.8
58	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	TRACE
59	.9	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	2.0
60	3.2	TRACE	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2
61	.0	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.7	.7
62	.7	3.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2
63	3.4	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.0	3.4
64	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	8.0	8.0
65	TRACE	.0	.3	.0	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.3
66	TRACE	TRACE	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
67	TRACE	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	3.3	3.3
68	4.9	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	6.0	6.0
69	5.1	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1
70	TRACE	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	1.0	1.0
71	3.5	.8	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	.0	1.9	3.5
72	.4	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	3.8	3.8
73	.4	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	.4
74	TRACE	TRACE	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	TRACE	TRACE
75	TRACE	.1	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	.1
76	TRACE	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
77	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	.7	7.0	TRACE	7.0
MEAN													
S D													
TOTAL OBS													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

(FROM DAILY OBSERVATIONS)

48-79

STATION

STATION NAME

YEARS

[illegible]

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

XXXXXXXXXXXXXXXXXXXX
EXTREME VALUES
XXXXXXXXXXXXXXXXXXXX
MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

24229 PORTLAND IAP OR

48-79

STATION

STATION NAME

YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	JAN	FEB	MAR.	APR.	MAY	JUN	JUL.	AUG	SEP.	OCT	NOV	DEC	ALL MONTHS
48	.9	.3	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	* 1.2
49	9.8	13.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	23.2
50	41.4	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43.5
51	.2	TRACE	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.2
52	8.9	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	8.9
53	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
54	10.6	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	1.2	11.8
55	1.1	1.3	.8	TRACE	.0	.0	.0	.0	.0	TRACE	8.2	2.0	13.4
56	9.3	1.1	1.8	.0	.0	.0	.0	.0	.0	.0	.0	2.6	14.8
57	4.2	1.4	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	5.6
58	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	TRACE
59	.9	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	2.9
60	10.3	TRACE	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.9
61	.0	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	1.0	1.0
62	.7	3.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6
63	5.0	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.0	5.0
64	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	11.0	11.0
65	TRACE	.0	.3	.0	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.3
66	TRACE	TRACE	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
67	TRACE	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	5.7	5.7
68	5.2	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	15.7	20.9
69	18.3	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.3
70	TRACE	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	1.4	1.4
71	6.9	1.7	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	.0	4.6	13.2
72	.4	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	6.1	6.5
73	.4	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	.4
74	TRACE	TRACE	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	TRACE	TRACE
75	TRACE	.1	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	.1
76	TRACE	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
77	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	7.6	TRACE	7.6
MEAN													
S. D.													
TOTAL OBS													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

XXXXXXXXXXXXXXXXXXXX
EXTREME VALUES
 XXXXXXXXXXXXXXXXXXXX
 MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

48-79

YEARS

[illegible]

NOTE * (BASED ON LESS THAN FULL MONTHS)

3 GLOBAL CLIMATOLOGY BRANCH
 3 USAFETAC
 3 AIR WEATHER SERVICE/MAC

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
 SNOW DEPTH
 (FROM DAILY OBSERVATIONS)

24229 PORTLAND IAP OR

48-79

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-03	04-10	11-25	26-30	31-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	84.5	5.8	2.7	1.0	.9	2.6	2.1	.3						9.7	992			
FEB	94.2	2.1	1.7	.2	.4	.7	.1	.6						3.7	904			
MAR	98.3	1.0	.3	.2		.2								.7	992			
APR	100.0														960			
MAY	100.0														992			
JUN	100.0														960			
JUL	100.0														992			
AUG	100.0														992			
SEP	100.0														960			
OCT	100.0														992			
NOV	97.5	1.9	.2		.1	.3								.6	960			
DEC	95.0	2.6	.7	.5	.4	.5	.3							2.4	992			
ANNUAL	97.5	1.1	.5	.2	.1	.4	.2	.1						1.4	11688			

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

SNOW DEPTH

(FROM DAILY OBSERVATIONS)

24229 PORTLAND IAP OR

48-79

STATION

STATION NAME

YEARS

DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR	APR	MAY	JUN	JUL	AUG.	SEP	OCT.	NOV	DEC.	ALL MONTHS
48	7	0	0	0	0	0	0	0	0	0	0	0	7
49	7	5	0	0	0	0	0	0	0	0	0	0	7
50	15	14	0	0	0	0	0	0	0	0	0	0	15
51	0	TRACE	5	0	0	0	0	0	0	0	0	TRACE	5
52	5	0	0	0	0	0	0	0	0	0	0	TRACE	5
53	0	0	0	0	0	0	0	0	0	0	0	0	0
54	6	0	0	0	0	0	0	0	0	0	0	TRACE	6
55	0	1	TRACE	0	0	0	0	0	0	0	0	TRACE	4
56	9	1	TRACE	0	0	0	0	0	0	0	0	2	9
57	2	TRACE	0	0	0	0	0	0	0	0	0	0	2
58	0	0	0	0	0	0	0	0	0	0	0	0	0
59	1	1	0	0	0	0	0	0	0	0	0	0	1
60	5	0	2	0	0	0	0	0	0	0	0	0	5
61	1	0	0	0	0	0	0	0	0	0	0	1	1
62	0	1	1	0	0	0	0	0	0	0	0	0	1
63	3	1	0	0	0	0	0	0	0	0	0	0	3
64	0	0	0	0	0	0	0	0	0	0	0	11	11
65	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	TRACE	0	0	0	0	0	0	0	0	0	TRACE
67	0	0	0	0	0	0	0	0	0	0	0	3	3
68	3	0	0	0	0	0	0	0	0	0	0	9	9
69	10	5	0	0	0	0	0	0	0	0	0	0	10
70	TRACE	0	0	0	0	0	0	0	0	0	TRACE	1	1
71	4	TRACE	0	0	0	0	0	0	0	0	0	3	4
72	TRACE	TRACE	0	0	0	0	0	0	0	0	0	5	5
73	TRACE	0	0	0	0	0	0	0	0	0	0	0	TRACE
74	TRACE	0	0	0	0	0	0	0	0	0	0	0	TRACE
75	TRACE	0	0	0	0	0	0	0	0	0	TRACE	TRACE	TRACE
76	0	0	0	0	0	0	0	0	0	0	0	0	0
77	TRACE	0	0	0	0	0	0	0	0	0	5	0	5
MEAN													
S D													
TOTAL OBS													

NOTE * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

EXTREME VALUES

(FROM DAILY OBSERVATIONS)

48-79

YEARS

[illegible]

NOTE * (BASED ON LESS THAN FULL MONTHS)

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

C PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

Means and standard deviations do not include measurements from incomplete months.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

SURFACE WINDS

(FROM DAILY OBSERVATIONS)

24229 PORTLAND IAP OR

59-79

STATION

STATION NAME

YEARS

DAILY PEAK GUSTS IN KNOTS

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN.	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
59	S 32E	429SSW	29E	31E	27SW	23W	22NW	22S	26SW	26E	34S	32	E 34
60	E 38S	36E	37SW	42S	30NW	23NW	23S	24E	27S	20E	33E	36	SW 42
61	S 40S	36SW	42NW	27W	34WSW	21NNW	24SW	27E	31SW	30W	42SW	50	SW 50
62	ESE 43SE	32SW	34S	44NW	21SW	24NNW	22WSW	24SW	26SSW	75SSW	43E	32	SSW 75
63	ENE 44E	36S	54SSW	36E	31NNW	26SW	24W	24SW	44S	41SW	38E	33	S 54
64	SSW 51SSW	41S	43NW	37NW	30NW	24S	29S	28S	34E	32ESE	35NW	37	SSW 51
65	S 41SE	59E	39SW	38SW	33SW	24NW	22S	23NE	33S	35S	42S	40	SE 59
66	S 45SW	34S	48E	32NW	27W	28NW	26E	33SW	39SW	35S	31S	40	S 48
67	S 55S	37SW	43S	29SW	31S	30N	21NW	25S	41S	68E	38S	33	S 68
68	S 45E	34S	43NW	29W	25SW	29E	22S	21SW	33S	40SW	39E	41	S 45
69	S 36E	36S	40S	36S	29NW	21NW	26SW	27S	30E	36S	33SW	48	SW 48
70	E 36E	35SW	27S	30NE	27NW	29NW	24S	29SW	34E	37E	47S	47	E 47
71	S 44W	35S	62SW	36SW	42W	25NW	25NW	30E	40S	33S	40S	42	S 62
72	E 40S	42SW	35S	55S	31NW	28E	30W	26S	31E	34S	28E	50	S 55
73	E 46E	42S	38E	27SW	28NNW	34NW	29SW	30SW	32SW	32SW	34S	36	E 46
74	E 45S	41S	56W	35W	27SW	31S	30NW	21E	32E	26E	32SW	43	S 56
75	SW 37NW	39E	36NW	31SW	34SW	28NW	20SW	26E	29SW	34SW	38SW	42	SW 42
76	SW 32SW	43SW	44E	33SW	33SW	26N	*23W	22E	25E	34E	34S	30	SW 44
77	E 31S	38SW	45W	42W	26NW	24N	26SW	27NW	23SW	28SW	35S	49	S 49
78	SW 45SW	40E	38W	32E	30SW	27NW	23NW	23SW	25E	29E	38E	35	SW 45
79	SE 43S	37E	36S	36S	25NW	27SW	27N	20E	26SW	31SE	47SE	42	SE 47
MEAN	41.8	38.7	41.4	35.2	29.5	26.3	24.8	25.3	31.5	36.0	37.3	39.9	52.1
S D	6.268	5.696	8.464	6.640	4.377	3.319	3.041	3.440	5.785	2.791	4.951	6.355	8.797
TOTAL OBS.	649	589	651	629	648	630	647	651	630	651	630	651	7656

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OIA)

S (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JAN
MONTH

ALL WEATHER
CLASS

0000-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.3										.9	3.5
NNE	.2	.5										.6	4.3
NE	.2	.2										.3	3.5
ENE	.2	.9	.2	.2	.2	.2						1.7	8.5
E	1.2	2.3	1.8	1.8	1.7	1.5	.3					11.8	12.3
ESE	1.2	3.4	9.5	6.2	2.7	1.4						23.7	10.8
SE	.5	3.7	7.5	7.5	.6	.2						20.0	9.9
SSE	.5	1.1	1.5	.5								3.5	7.3
S	.2	2.7	1.2	.6								4.0	7.4
SSW		.2	1.5	2.0	.3	.3						4.3	12.4
SW	.3	.6	1.1	1.7								3.7	10.0
WSW	.6	.8	.8	.6		.2						2.9	8.8
W	.3	1.4	.9									2.6	6.1
WNW	.3	1.7	.5									2.5	4.8
NW	.5	2.2	.5									3.1	5.1
NNW		.8	.3									1.1	5.4
VARBL													
CALM												14.3	
	6.5	21.8	27.8	21.1	4.8	3.7	.3					100.3	8.3

TOTAL NUMBER OF OBSERVATIONS

650

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JAN
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.5	.3									2.3	4.7
NNE	.3	.3										.6	3.5
NE	.2	1.1										1.2	4.6
ENE		.6	.5	.2								1.2	7.0
E	.6	2.5	1.5	2.3	.9	1.7	.3					9.8	12.8
ESE	.5	4.8	9.5	6.0	1.8	1.1						23.7	10.5
SE	.9	3.1	4.8	6.8	.8							16.3	9.9
SSE	.5	1.4	1.4	.3								3.5	6.4
S	.9	1.5	1.7	1.5	.5							6.1	8.7
SSW	.2	.6	.8	2.5	.6							4.6	11.7
SW	.2	1.4	1.5	1.1								4.1	8.3
WSW	.3	.6	.6	.2								1.7	6.5
W	.3	.8	.3									1.4	4.8
WNW	1.1	1.5	.3									2.9	4.2
NW	.3	1.5	.9									2.8	5.8
NNW		.9	.5									1.4	6.0
VARBL													
CALM												16.3	
	6.6	24.1	24.6	20.7	4.6	2.8	.3					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JAN
MONTH

ALL WEATHER
CLASS

0600-1800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.6	.2	.2								1.2	5.3
NNE		.5										.5	5.0
NE	.5	.6		.2								1.2	4.8
ENE	.5	.6	.5	.5	.7							2.2	8.2
E	1.1	2.2	.9	2.3	1.5	1.8	.5					13.3	13.6
ESE	.6	4.9	7.1	6.3	2.2	.9						22.1	10.5
SE	.9	3.7	5.8	7.1	.9							18.7	9.8
SSE	.2	1.2	.8	.3								2.5	6.8
S	.6	2.5	.9	.6	.2	.2						4.9	7.5
SSW	.2	1.2	1.5	2.5	1.5	.2						7.1	12.7
SW		.8	.8	2.0	.8	.2						4.5	12.6
WSW	1.1	.6	.3	.2								2.2	4.8
W	.6	.6										1.2	3.6
WNW	.3	1.7	.3	.2								2.5	5.3
NW		2.3										2.3	4.9
NNW	.3	.9	.2	.2								1.5	6.1
VARBL													
CALM												16.1	
	7.1	24.9	18.7	22.3	7.2	3.2	.5					101.0	8.2

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229 PORTLAND IAP OR 73-79 JAN
STATION STATION NAME YEARS
ALL WEATHER
CLASS
CONDITION
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.6	.6										1.2	3.9
NNE	.6											.6	2.8
NE		.3										.3	5.0
ENE	.3	.6	.3	.3	.3							1.8	8.8
E	.5	3.5	1.8	2.8	2.6	2.5	.5	.3				14.4	14.7
ESE	.6	3.8	7.1	8.6	1.7	1.4	.2					23.3	11.3
SE	1.1	3.7	4.1	6.0	.6							15.5	9.7
SSE		.9	.9	.2								2.1	7.4
S	.8	1.7	2.7	.9	.3	.2						5.8	8.0
SSW	.2	1.2	1.7	2.8	1.4	.3						7.5	12.0
SW		.8	1.1	1.5	.6	.2	.2					4.3	12.6
WSW		1.5	.8	.6								2.9	7.6
W	.2	1.5	.3									2.0	5.3
WNW	.2	1.1	.9									2.2	6.1
NW		1.2	.3									1.5	5.5
NNW	.3	1.2	.6	.2								2.3	5.9
VARBL													
CALM												12.1	
	5.2	23.8	22.0	23.8	7.5	4.5	.8	.3				100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JAN
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.5	.2									3.1	4.1
NNE	.3	.5	.3									1.1	5.4
NE	.6	.6										1.2	3.5
ENE	.3	.9	.3		.5							2.0	8.3
E	1.1	3.5	2.5	2.6	3.8	1.8	.8	.2				15.8	13.8
ESE	.5	3.2	4.8	7.2	3.2	.6	.3					19.8	11.9
SE		1.2	5.7	6.9	.5	.2						14.5	11.0
SSE	.3	.5	1.1									1.8	6.8
S	.3	1.7	2.9	1.2	.3							6.5	9.0
SSW	.3	.6	2.5	3.5	1.5	.3						8.8	12.8
SW	.3	.6	1.2	2.8	.3							5.2	10.6
WSW	.2	.3	.8	.2								1.4	7.7
W	.5	1.7	.6									2.8	4.9
WNW	.5	2.2	1.5									4.2	5.6
NW	.3	1.1	.5			.2						2.0	6.4
NNW	.5	1.2	.8	.2								2.6	6.2
VARBL													
CALM												7.2	
	7.2	21.4	25.1	24.6	10.2	3.1	1.1	.2				100.0	9.7

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229 PORTLAND IAP OR 73-79 JAN
STATION STATION NAME YEARS MONTH
ALL WEATHER 1500-1700
CLASS HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.7	.3	.2								2.6	5.0
NNE	.3	.5										.8	4.0
NE		.2	.3									.5	6.7
ENE		.3	.3	.3	.3	.3	.2					1.7	15.2
E	.3	2.2	1.8	1.8	2.3	2.0	.3					10.8	14.3
ESE	.2	3.2	8.1	8.6	1.9	2.2						24.1	11.9
SE	.3	1.8	6.6	7.2	.2							16.1	10.3
SSE	.3	1.2	1.5	.3								3.4	6.7
S	.3	.5	2.2	1.4	.2							4.3	9.2
SSW	.2	.9	1.8	3.1	1.2	.2						7.4	12.0
SW		.9	1.8	3.2	.6	.3						6.9	12.1
WSW	.2		.8	.6								1.5	4.9
W	.6	2.6	.6	.5								4.3	5.9
WNW	.9	2.5	.8		.2							4.3	5.5
NW	.2	2.0	.6	.2								2.9	5.9
NNW	.3	.5	.3	.3								1.4	6.7
VARBL													
CALM												7.1	
	4.5	20.9	27.8	27.6	6.8	4.9	.5					100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229 PORTLAND IAP OR 73-79 JAN
STATION NAME YEARS MONTH
ALL WEATHER CLASS 1800-2400 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.5										.6	3.8
NNE	.2	.5	.2									.8	5.0
NE		.3										.3	4.0
ENE	.2	.3		.5								.9	9.3
E	.6	2.8	1.8	.9	1.1	1.7	.5					9.4	12.5
ESE	.2	5.4	9.8	3.5	4.9	.8						29.5	11.3
SE	.5	3.8	6.9	7.8	.5							19.5	9.8
SSE	.2	1.5	1.7		.2							3.5	7.0
S	.9	1.5	2.0	.6	.6							5.7	8.3
SSW	.3	.2	2.3	3.7	.8	.2						7.4	12.0
SW		.5	1.2	2.3	.5							4.5	11.4
WSW		.6	.6	.3	.2							1.7	8.9
W		1.4	.5									1.8	5.2
WNW	.5	1.5	.8	.3								3.1	6.3
NW		1.1										1.1	4.7
NNW	.5	.8	.3	.2								1.7	6.0
VARBL													
CALM												8.5	
	4.0	22.6	28.2	25.1	8.6	2.6	.5					100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 650

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JAN
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.5	.2	.2								1.2	5.3
NNE	.3	.2	.3									.8	5.0
NE	.5	.2										.6	3.3
ENE		.8	.3	.2		.2						1.4	8.4
E	.5	2.6	1.4	1.2	.8	2.0	.6					9.1	13.6
ESE	1.1	6.8	8.9	8.4	2.6	1.1						28.9	10.4
SE	.3	3.4	9.2	6.3		.3						19.5	9.5
SSE	.2	.9	.9	.3								2.3	7.4
S	.2	.8	2.3	.9								4.1	8.9
SSW	.2	.8	1.1	2.3	.8	.3						5.4	12.7
SW	.2	.3	1.7	1.8	.3							4.3	10.9
WSW	.5	1.2	.6	.2		.2						2.6	7.1
W	.5	.8	.8									2.0	5.8
WNW	.2	2.9	.8	.2								4.0	6.0
NW	.5	1.4	.5									2.3	5.2
NNW		.8	.2									.9	5.5
VARBL													
CALM												10.6	
	5.2	24.1	29.7	22.0	4.5	4.7	.6					100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229 STATION PORTLAND IAP OR 73-79 YEARS JAN MONTH
ALL WEATHER CLASS ALL HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.9	.1	.1								1.7	4.5
NNE	.3	.3	.1									.7	4.5
NE	.2	.4	.0	.0								.7	4.4
ENE	.2	.6	.3	.2	.2	.1	.0					1.6	9.2
E	.7	2.7	1.7	2.0	1.8	1.9	.5	.1				11.3	13.4
ESE	.6	4.4	8.1	7.5	2.5	1.2	.1					24.4	11.1
SE	.6	3.1	6.3	7.0	.5	.1						17.4	9.9
SSE	.2	1.1	1.2	.2	.0							2.8	6.9
S	.5	1.5	1.9	1.0	.2	.0						5.2	8.4
SSW	.2	.7	1.7	2.8	1.0	.2						6.6	12.1
SW	.1	.7	1.3	2.1	.4	.1	.0					4.7	11.2
WSW	.3	.7	.7	.3	.0	.0						2.1	7.6
W	.4	1.3	.5	.1								2.3	5.4
WNW	.5	1.9	.7	.1	.0							3.2	5.5
NW	.2	1.6	.4	.0		.0						2.2	5.5
NNW	.2	.9	.4	.1								1.6	6.0
VARBL													
CALM												11.5	
	5.8	23.0	25.3	23.9	6.8	3.6	.6	.1				100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 5275

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

FEB
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.8	.2									1.2	4.7
NNE	.3											.3	3.0
NE	.3	.3										.7	3.8
ENE	.7	1.7		.2	.2							2.7	5.3
E	.7	2.9	2.2	1.0	1.4	.2						8.3	9.3
ESE	1.4	5.9	12.0	5.6	.7	.3						25.9	8.9
SE	.8	3.1	3.9	4.7								14.6	8.8
SSE	.5	.5	.8	.7								2.5	7.5
S	.2	.8	2.4	1.9	1.0	.2						6.4	11.4
SSW		.5	1.0	3.9	.3	.2						5.9	12.7
SW	.3	.3	.5	2.4	.2	.2						3.9	11.9
WSW	.5	1.2	.5									2.2	5.0
W	.2	.8	.3	.2								1.5	6.1
WNW	.7	1.7	1.2	.2								3.7	6.0
NW	.2	1.5	.2									1.9	4.6
NNW	.3	.7	.3									1.4	4.9
VARBL													
CALM												16.8	
	7.3	22.9	27.6	20.7	3.7	1.0						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 590

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 24229 STATION NAME PORTLAND IAP OP YEARS 73-79 MONTH FEB
CLASS ALL WEATHER HOURS (L.S.T.) 0300-0500
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.8	.3									1.5	4.8
NNE	.5	.2										.7	3.5
NE	.5	.3										.8	3.4
ENE	1.0	1.2	.3	.2								2.7	5.4
E	.5	3.0	1.5	2.0	.5	.5						8.1	9.7
ESE	.7	7.6	11.2	6.1	.5		.2					26.2	8.7
SE		2.0	4.7	4.6	.5							11.8	10.4
SSE	.2	.5	.5	.8								2.0	8.6
S		1.7	2.9	3.0	.2							7.1	10.3
SSW		.2	2.4	5.1	1.0	.3						9.1	12.9
SW		.3	1.0	2.5	.7							4.6	12.0
WSW	.2	.8	.7	.2								1.9	6.9
W	.5	1.0	.3	.2								2.0	5.7
WNW	.7	2.4	.7									3.7	4.7
NW		1.0	.2									1.2	5.3
NNW	.7	.5	.2									1.4	4.4
VARBL													
CALM												15.1	
	5.8	23.2	26.9	24.7	3.4	.8	.2					100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 591

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229 PORTLAND IAP OR 73-79 FEB
STATION STATION NAME YEARS NORTH

ALL WEATHER
CLASS

CONDITION

0600-0800
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.0										1.5	4.2
NNE	.2	.2										.3	3.5
NE	.5	.5										1.0	3.5
ENE	.2	1.4	.3	.3								2.2	6.4
E	.7	2.5	2.0	1.2	1.0	.7						8.1	9.9
ESE		5.3	9.1	5.4	1.4	.5						22.4	9.9
SE	.2	2.7	4.4	4.2	.2							11.7	9.1
SSE	.2	.7	1.0	1.2	.2							3.2	9.5
S	.2	1.9	4.1	3.7	.5							10.3	10.1
SSW	.3	1.2	1.5	5.4	1.4	.5						10.3	12.6
SW		.7	1.0	1.0	1.0							3.7	11.8
WSW	.7	.7	.5	.5								2.4	6.9
W	.5	1.2	.2	.3								2.2	5.9
WNW	1.0	2.0	.2									3.2	4.4
NW	.3	1.5										1.9	4.3
NNW	.3	1.2										1.5	4.3
VARBL													
CALM												13.9	
	5.8	24.6	25.1	23.4	5.6	1.7						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS 590

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229 STATION PORTLAND IAP OR 73-79 YEARS FEB MONTH
ALL WEATHER CLASS 1900-1900 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.7	.2									3.4	4.3
NNE	.3	.2										.5	3.3
NE	.7	.3										1.0	3.3
ENE	.5	.8	.3									1.7	4.6
E	.7	3.6	1.9	1.2	1.2	.7						9.1	10.0
ESE	.3	2.7	10.0	6.1	1.7	.7						21.5	10.7
SE	.3	2.0	3.7	5.4								11.5	10.0
SSE	.2	.8	1.7	.8	.2							3.2	8.9
S	.5	.7	2.0	4.7	1.4	.5						9.8	12.4
SSW		.7	2.4	4.2	1.4	.7						9.8	13.4
SW		.2	2.0	2.2	.7							5.1	12.0
WSW	.7		.5	.5	.2							1.9	8.5
W	.5	.7	1.0	.3								2.5	7.1
WNW	.5	2.2	.7		.2							3.6	6.0
NW	.7	1.7	.7		.2							3.2	5.7
NNW	.3	1.5	.3									2.2	4.8
VARBL													
CALM												10.2	
	7.8	20.1	26.7	25.5	7.4	2.5						100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 591

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229 PORTLAND IAP OR 73-79 FEB
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.9	.3									2.7	4.9
NNE		.7										.7	5.3
NE	.2	1.2										1.4	4.8
ENE	.2	1.9										2.0	4.9
E	.3	4.7	2.7	1.4	2.2	1.0						11.7	11.8
ESE	.3	1.7	8.0	8.6	1.7	1.2						23.5	13.6
SE		.8	3.2	5.8	.5							11.3	11.5
SSE		.3	.5	1.0								1.9	9.9
S	.2	.5	2.2	2.0	1.4	.3						6.6	12.2
SSW		.7	2.4	4.7	1.9	.5						10.2	13.4
SW		.5	1.7	3.2	.7	.3	.2					6.6	13.2
WSW	.3	.3	1.4	1.0	.3							3.4	11.0
W	.2	1.9	1.9	1.2	.2							5.2	8.5
WNW	.2	1.2	2.4	.5	.3							4.8	8.6
NW	.2	1.5	.5	.3								2.5	6.9
NNW	.3	1.5	.7	.2								2.7	6.4
VARBL													
CALM												6.1	
	2.9	21.3	27.1	29.9	9.1	3.4	.2					107.1	111.1

TOTAL NUMBER OF OBSERVATIONS 591

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

20229 STATION PORTLAND IAP OR 73-79 YEARS FEB MONTH
STATION NAME CLASS ALL WEATHER 1500-1700 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.2	.5	.3								2.4	6.7
NNE	.3	.2										.5	3.7
NE	.2	.3										.5	3.7
ENE	.3	.8	.2									1.4	4.6
E	.2	4.6	1.2	2.7	.3	1.4						10.3	10.7
ESE	.3	2.5	8.5	10.2	1.7	.7						23.9	12.3
SE		1.4	4.7	6.6								12.7	10.4
SSE		.2	1.2	1.2								2.5	9.9
S		.8	2.9	3.4	1.0							8.1	11.3
SSW	.3	.7	1.2	3.4	1.2	.2						6.9	13.0
SW		.5	2.1	3.4	.5	.2						6.6	11.7
WSW	.2	.7	1.4	1.5	.5	.2						4.4	11.3
W	.2	1.2	1.7	1.7	.2							4.2	8.6
WNW	.2	1.0	1.7	.7	.3							3.9	8.9
NW	.2	1.4	.3		.2							2.0	6.3
NNW		.3	1.5	.2								2.0	8.2
VARBL													
CALM												7.6	
	2.7	17.8	28.9	34.5	5.9	2.5						100.0	9.7

TOTAL NUMBER OF OBSERVATIONS 591

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

FEB
MONTH

ALL WEATHER
CLASS

1800-2359
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.2	.7									2.0	5.0
NNE	.2	.3	.2									.7	4.0
NE	.2	.3										.5	4.0
ENE	.2	.5	.2		.2							1.0	0.0
E	.5	3.1	1.5	2.0	.5	.8	.7					8.7	10.0
ESE	.5	4.6	12.1	9.5	1.9	.5						29.0	10.0
SE	.2	2.7	7.0	5.6								15.0	9.0
SSE	.2	1.3	.7	.2								2.0	6.0
S	.5	.5	2.7	3.1	.5							7.3	10.0
SSW		.3	1.9	2.4	.5							5.1	11.0
SW	.3	.2	1.0	1.9	.2							3.6	11.0
WSW	.2	.8	.8	1.0								2.9	9.0
W	.2	1.0	.2	.5	.2							2.0	7.0
WNW	.2	2.5	.7	.3	.2							3.9	6.0
NW	.2	1.2	.8	.2	.2							2.5	7.0
NNW	.2	.5	1.0	.2								1.9	5.0
VARBL													
CALM												11.4	
	3.7	20.9	31.4	26.8	4.2	1.4	.2					100.0	8.0

TOTAL NUMBER OF OBSERVATIONS 580

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

FEB
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.7										.8	4.2
NNE	.2	.3										.5	4.3
NE	.3											.3	2.5
ENE	.3	1.2	.2		.2							1.9	5.8
E	.7	3.2	2.0	1.4	1.0	.3						8.6	9.7
ESE	.3	4.9	15.9	6.8	1.0	.3	.2					29.4	9.6
SE	.7	1.5	6.4	4.2	.3							13.2	9.8
SSE		1.0	1.4	.3								2.7	8.4
S	.2	1.5	3.0	1.9	.5							7.1	9.7
SSW		.2	1.2	4.1	.2							5.6	12.5
SW		.5	.8	2.0	.2							3.6	11.4
WSW		.2	.5	.3	.2							1.2	10.4
W	.7	2.4	.8	.2								4.1	5.6
WNW	.2	2.7	.5	.2	.2							3.7	6.4
NW		1.4	1.0	.2								2.5	6.5
NNW	.3	.8	.3									1.5	5.1
VARBL													
CALM												13.2	
	4.1	22.5	34.2	21.5	3.7	.7	.2					100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 591

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

FEB
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.2	.3	.0								1.9	5.1
NNE	.3	.3	.0									.5	4.0
NE	.4	.4										.8	3.8
ENE	.4	1.2	.2	.1	.1							1.9	5.4
E	.5	3.5	1.8	1.6	1.0	.7	.0					9.1	10.1
ESE	.5	4.4	17.9	7.3	1.3	.5	.0					25.0	10.1
SE	.3	2.7	5.0	5.1	.2							12.7	9.8
SSE	.1	.6	.9	.8	.7							2.5	8.7
S	.2	1.0	2.8	3.0	.8	.1						7.9	11.0
SSW	.1	.6	1.7	4.1	1.7	.3						7.9	12.8
SW	.1	.4	1.3	2.3	.5	.1	.0					4.7	12.0
WSW	.3	.6	.8	.6	.1	.0						2.5	8.8
W	.4	1.3	.8	.5	.1							3.0	7.2
WNW	.4	2.0	1.0	.2	.1							3.8	6.6
NW	.2	1.4	.5	.1	.1							2.2	6.0
NNW	.3	.9	.6	.1								1.8	5.8
VARBL													
CALM												11.8	
	5.0	21.7	28.5	25.9	5.4	1.8	.1					100.0	8.5

TOTAL NUMBER OF OBSERVATIONS

4724

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

MAR
MONTH

ALL WEATHER
CLASS

0000-1200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.1	.5		.2							2.5	5.8
NNE		.5										.5	4.7
NE	.5	.2										.6	3.8
ENE	.3	.6										.9	4.7
E	.8	2.9	1.5	.9	.3							6.5	7.3
ESE	.6	7.2	5.4	2.5	.6							16.3	7.6
SE	.6	3.2	2.8	.8	.3							7.7	7.4
SSE		.2	.5	.5								1.8	7.9
S	.6	1.8	3.1	2.9	.5	.2						2.1	9.8
SSW	.3	.8	2.5	2.5	.9							6.9	11.1
SW	.5	1.4	1.2	1.2	.2							4.5	8.6
WSW	.3	1.1	1.2	.3								2.9	6.8
W	1.5	2.3	1.2	.5								5.5	5.5
WNW	1.1	3.1	.9									5.1	5.11
NW	.3	2.8	.9	.3								4.3	5.9
NNW	.5	1.4	.2	.2	.2							2.3	6.4
VARBL													
CALM												22.7	
	8.6	31.2	21.8	12.4	3.1	.2						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

77-79
YEARS

MAP
MORTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.2	.3	.2								2.5	5.2
NNE	.7	.5	.2									.8	4.8
NE		.2										.2	4.0
ENE	.5	.6										1.1	3.6
E	.9	3.2	1.7	.9	.6	.2						7.5	7.8
ESE	2.2	6.5	6.3	2.3	.6	.2						18.0	7.5
SE	.3	3.2	2.6	1.5								7.7	7.7
SSE	.2	1.1	.5	.6								2.3	7.3
S	.5	2.3	4.5	3.1	.8	.2						11.2	9.8
SSW	.3	1.5	1.4	2.5	.8	.2						6.6	11.0
SW	.3	1.8	1.2	.6		.2						4.2	7.4
WSW	.5	.6	.9	.2								2.2	6.4
W	1.1	2.7	1.4	.3								4.8	6.0
WNW	.3	2.7	1.1	.2								3.5	6.0
NW	.7	2.3	.5	.3								3.4	6.0
NNW	.5	1.1	.5	.3	.2							2.5	7.4
VARBL													
CALM												21.7	
	8.6	39.2	22.9	12.9	2.9	.8						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 650

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

MAR

MONTH

ALL WEATHER

CLASS

2699-0800

HOURS (L.O.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.5	.2	.2								1.8	5.3
NNE	.2	.5										.6	4.5
NE	.5											.5	3.7
ENE	.8	.9										1.7	3.7
E	.8	2.8	1.1	.8	.6							6.0	7.6
ESE	1.4	6.2	6.5	3.1	.6							17.7	8.0
SE	.2	2.5	2.6	1.7								6.9	8.1
SSE	.5	1.7	.8	.5								3.4	6.3
S	.6	2.9	3.0	1.5	1.1							9.5	9.0
SSW	.2	1.5	3.5	2.2	.2							7.5	9.2
SW	.5	.8	2.1	2.2	.5							5.8	10.0
WSW	.3	1.5	.6	.3		.2						2.9	7.9
W	.6	1.8	1.2	.6	.2							4.5	7.4
WNW	.3	2.9	.2									3.4	4.8
NW	.6	.9	.8	.2	.3							2.8	7.3
NNW	.2	1.2	.9	.8								3.1	7.6
VARBL													
CALM												21.8	
	7.5	29.5	23.7	13.8	3.4	.2						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

650

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229 PORTLAND IAP OR 73-79 MAR

STATION STATION NAME YEARS MONTH

ALL WEATHER

CLASS

CONDITION

0900-1800
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	3.2		.5								4.3	5.8
NNE	.5	.6										1.2	4.7
NE	.5	.9	.2									1.5	4.5
ENE	.6	2.7	.5									3.1	4.9
E	.5	2.6	1.4	.5	.3	.6						5.8	8.9
ESE	.5	3.1	4.6	6.1	.5	.2						14.9	10.7
SE	.3	.8	1.5	1.8								4.5	9.7
SSE		1.5	.3	.3	.2							2.3	7.7
S	.2	.8	4.6	3.4	.3	.3						9.5	11.6
SSW	.3	.6	4.3	4.9	1.4	.5						12.7	12.7
SW	.3	.5	2.2	2.2	.9	.2						6.1	11.6
WSW	.2	.9	1.2	.8								3.1	8.5
W	.2	.8	2.9	.8								4.6	8.6
WNW		3.5	2.5	.5	.2							6.6	7.17
NW	.6	4.1	1.8	.3								6.9	6.7
NNW	.9	2.7	.8									3.7	5.7
VARBL													
CALM												9.8	
	6.1	28.7	28.7	22.0	3.7	1.7						1.4.7	8.7

TOTAL NUMBER OF OBSERVATIONS 651

GLOBEAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229 STATION PORTLAND IAP OR 73-79 YEARS MAR MONTH
1279-1470 HOURS (L.S.T.)
ALL WEATHER CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	4.1	1.7	.5	.3							7.5	6.4
NNE	.3	1.7	.3									2.3	4.8
NE	.3	2.0	.2									2.5	4.7
ENE	.3	2.9	1.1									4.3	5.7
E	.2	1.5	2.9	.9	.8	.9						7.2	11.1
ESE	.3	.5	2.3	3.4	.3	.2						6.9	11.2
SE	.2	.6	2.7	.9	.2							3.8	9.7
SSE			.5	.3	.2							.9	12.2
S	.2	1.2	2.8	3.4	.5	.5						8.4	11.5
SSW	.3	1.1	2.6	5.8	1.2			.3				11.4	12.2
SW	.2	1.4	1.1	4.0	.8	.2	.2					7.7	12.1
WSW	.3	1.9	1.1	2.5	.3							5.5	10.3
W		4.1	3.4	1.4	.8							9.7	8.4
WNW	.3	2.2	5.2	1.1	.2							8.9	8.3
NW	.6	2.7	2.3	.6	.2							5.7	7.3
NNW	.3	2.3	1.4	.2	.2							4.3	6.9
VARBL													
CALM												2.9	
	4.6	29.0	30.7	24.9	5.7	1.7	.2	.3				100.0	9.1

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

MAR
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	3.7	1.5	1.5								7.4	7.1
NNE	.7	1.2	.2									1.5	4.8
NE	.3	.9										1.2	4.5
ENE	.5	1.2	.5	.2								2.3	5.5
E	.8	2.6	1.8	.6	.9	.8						7.5	9.8
ESE	.3	.8	3.1	2.9	1.1	.3						8.4	11.4
SE		.5	2.5	1.4								4.3	9.6
SSE	.3	.5	1.1	.5								2.3	8.1
S	.2	.6	3.1	2.3	.8	.3						7.2	11.1
SSW		.2	2.2	2.6	.3	.3	.2					5.7	12.5
SW	.3	.3	1.8	2.9	.8							6.1	11.7
WSW	.3	1.5	2.2	4.1	.6							8.8	10.7
W	.5	1.4	3.5	1.2	.3							6.9	9.8
WNW	.2	2.5	5.4	3.5	.5							12.0	9.3
NW	.3	2.2	2.6	.9	.8							6.8	8.9
NNW	.5	2.8	2.5	1.2								6.9	7.6
VARBL													
CALM												4.6	
	5.1	22.7	33.8	26.0	6.0	1.7	.2					170.0	9.1

TOTAL NUMBER OF OBSERVATIONS

651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

MA2
MONTH

ALL WEATHER
CLASS

1800-2100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.5	2.2	.8								5.8	7.2
NNE	.3		.2									.5	4.3
NE	.2	.3										.5	4.3
ENE	.8	.8	.5									2.0	5.4
E	.2	3.2	1.4	.9	.6	.3						6.6	8.9
ESE	.2	2.5	6.1	2.3	.5	.5						12.0	9.5
SE	.3	1.7	3.4	.5								5.8	7.6
SSE	.2	.6	.6	.6								2.0	7.7
S	.3	2.9	2.8	2.2	.2	.2	.2					8.6	9.1
SSW		1.2	1.5	2.5	.5	.2						5.8	10.9
SW	.2	.8	1.2	1.5		.2						3.8	9.8
WSW	.2	.9	2.2	1.1	.2							4.5	8.9
W	.5	3.2	5.5	2.0								11.2	8.3
WNW	.3	2.2	3.5	1.5								8.3	7.9
NW	.5	2.6	2.6	1.2	.5							7.4	8.4
NNW	.5	2.3	2.9	1.4								7.1	7.8
VARBL													
CALM												3.1	
	4.6	28.6	36.6	18.4	2.3	1.2	.2					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

MAR
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L & T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.9	.9	.6								2.9	7.4
NNE	.2	.3										.5	4.3
NE		.5	.2									.6	5.5
ENE	.5	.5	.2									1.1	4.3
E	1.1	2.6	1.2	.3	.6	.2						6.7	7.7
ESE	.5	4.5	8.3	2.6	.2	.5						16.4	8.4
SE	.5	2.0	2.9	1.1	.2							6.6	7.9
SSE	.2	.6	1.2	.6								2.6	8.0
S	.3	1.2	3.5	2.0	.6							7.7	10.6
SSW		.6	2.0	2.8	.3	.3						6.0	11.6
SW	.5	.9	1.2	.9	.3	.2						4.0	9.2
WSW	.3	2.2	1.2	.2								3.8	6.0
W	.5	4.9	4.0	.8								10.1	6.7
WNW	.9	5.4	3.1	.2	.2							9.7	6.1
NW	.5	2.8	2.6	.3								6.1	6.5
NNW	.3	1.7	1.7	.2								3.8	6.5
VARBL													
CALM												12.0	
	6.5	31.5	34.3	12.4	2.3	1.1						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

MAR
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.3	.9	.5	.1							4.3	6.5
NNE	.2	.7	.1									1.0	4.6
NE	.3	.6	.1									.9	4.5
ENE	.5	1.2	.3	.0								2.1	5.7
E	.6	2.7	1.6	.7	.6	.4						6.6	8.7
ESE	.7	3.9	5.3	3.2	.5	.2						13.8	8.8
SE	.3	1.8	2.5	1.2	.1							5.9	8.2
SSE	.2	.9	.7	.3	.7							2.2	7.7
S	.3	1.7	3.5	2.6	.6	.2	.0					8.9	10.1
SSW	.2	.9	2.5	3.2	.7	.2	.7	.0				7.7	11.4
SW	.3	1.0	1.5	1.9	.4	.1	.0					3.3	10.4
WSW	.3	1.3	1.3	1.2	.1	.0						4.2	8.8
W	.6	2.6	2.9	.9	.2							7.2	7.6
WNW	.4	3.1	2.7	.9	.1							7.2	7.3
NW	.5	2.5	1.8	.5	.2							5.4	7.2
NNW	.4	1.8	1.3	.5	.1							4.2	7.0
VARBL													
CALM												13.0	
	6.5	28.8	29.1	17.9	3.7	1.1	.1	.0				100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 5206

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

20229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

APR
MONTH

ALL WEATHER
CLASS

5000-0210
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.4	.8									4.1	4.2
NNE	.3	.5										.8	4.2
NE	.2	.3										.5	4.3
ENE	1.0	1.7										2.7	4.1
E	.8	4.1	.3	.8								6.0	6.3
ESE	1.0	5.7	2.5	.2								9.4	5.7
SE	.3	2.5	1.1									4.0	5.6
SSE	.2	.8	.8									1.7	5.6
S	.8	3.3	3.1	1.3								8.4	7.2
SSW	.3	1.1	2.2	2.7	.2							6.5	9.7
SW	.3	.6	1.1	.2								2.2	7.3
WSW	.3	1.4	.8	.2								2.7	6.0
W	1.1	3.2	1.7	.2								6.0	5.5
WNW	.6	5.2	1.3	.2								7.3	5.6
NW	1.1	4.3	2.5	.3								8.1	6.0
NNW	.6	1.4	2.1									4.1	6.1
VARBL													
CALM												25.4	
	9.5	38.7	20.3	5.9	.2							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 631

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

APR

MONTH

ALL WEATHER

CLASS

0300-1500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3	.3									2.2	4.6
NNE	.2	.2										.3	3.5
NE	.5	1.3										1.7	3.8
ENE	.5	1.0										1.4	3.8
E	.6	3.2	.3	.2								4.3	5.1
ESE	2.1	7.6	1.4	.2		.2						11.4	5.2
SE	.6	4.1	1.7	.3								6.8	5.7
SSE	.3	1.4	.5									2.2	5.3
S	.8	2.9	3.5	1.0	.2							7.9	7.7
SSW	.5	2.2	2.2	2.7	.8							8.4	9.8
SW	.5	2.1	.6	1.0								4.1	7.3
WSW	.2	1.6	.8									2.5	5.5
W	.6	3.2	1.4									5.2	5.4
WNW	.3	3.7	1.0	.2								5.1	5.6
NW	.6	1.9	.5	.2								3.2	5.4
NNW	.6	1.3	1.3									3.2	5.5
VARBL													
CALM												29.7	
	9.2	38.8	15.6	5.6	1.0	.2						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

629

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

APR
MONTH

ALL WEATHER
CLASS

116.37-118.91
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.6	.5									2.5	4.9
NNE	.2	.6										.8	4.1
NE	.2	.2										.3	3.5
ENE	1.3	1.7	.3									2.5	4.1
E	1.1	2.7		.2								4.0	4.8
ESE	.6	5.2	2.7	.6	.2							9.4	6.6
SE	.5	3.2	1.4	.5								5.6	6.1
SSE	.5	2.1	1.7									4.3	6.0
S	1.6	2.9	4.1	2.4								11.0	7.7
SSW	.5	1.7	2.9	2.9		.2						8.1	9.5
SW		1.4	1.4	1.1	.3	.2						4.4	9.8
WSW	.3	.8	.5									1.6	5.5
W	.6	3.5	1.4	.3								5.9	5.9
WNW	1.0	3.1	1.3	.3	.2							5.7	6.0
NW	1.0	4.1	1.0	.3								6.3	5.4
NNW	.3	2.2	1.3									3.8	6.3
VARBL													
CALM												23.8	
	10.0	36.2	20.5	8.6	.6	.3						110.0	5.1

TOTAL NUMBER OF OBSERVATIONS

631

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAL

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

APR
MONTH

ALL WEATHER
CLASS

7900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	5.2	1.4	.3								7.6	5.5
NNE	.5	1.3	.2									1.9	4.5
NE	.3	2.4	.2									2.9	4.6
ENE		2.4	.8									3.2	5.6
E	.2	2.4	2.2	.3	.3							5.4	7.5
ESE	.2	1.4	2.2	1.6	.2							5.6	9.3
SE	.2	.5	1.1	.8								2.5	8.6
SSE	.2	.6	.6									1.4	6.4
S	.5	1.3	3.5	4.1								9.4	9.7
SSW	.2	1.1	2.5	3.2	.2							7.1	10.1
SW	.3	1.6	3.2	3.5								8.6	9.6
WSW	.2	1.6	1.3	1.2								4.1	8.0
W	1.2	4.4	4.2	.3	.2							9.8	6.7
WNW	1.2	3.7	4.3	1.1	.2							10.2	7.2
NW	.6	3.2	2.5	.5								6.8	6.7
NNW	.8	3.5	1.6	.3								6.2	5.9
VARBL													
CALM												7.3	
	6.5	36.5	31.6	17.1	1.0							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

APR
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	5.4	1.3	.3								7.8	5.6
NNE	.3	2.2	.5	.2								3.2	5.4
NE	.3	1.9	.5									2.7	4.9
ENE		1.7	1.4									3.2	6.6
E	.3	1.1	1.6	2.2	.2							5.4	9.8
ESE		.6	1.9	2.2								4.8	10.2
SE	.5	.6	.5	.2								1.7	6.4
SSE		.8	1.0	.3								2.1	7.9
S	.2	1.6	4.3	2.4	.6	.3						9.4	10.3
SSW		1.3	2.5	3.5	.5							7.8	10.5
SW		1.3	2.2	1.9	.3							5.7	9.7
WSW	.2	2.1	2.1	1.6			.2					6.0	9.1
W	.6	1.7	6.0	1.6	.3							10.3	8.4
WNW		4.4	6.7	2.7	.2	.2						14.1	8.6
NW	.2	1.3	3.3	.5								5.2	7.9
NNW	.3	2.5	1.6	1.4								5.9	7.8
VARBL													
CALM												4.8	
	3.7	30.6	37.3	21.0	2.1	.5	.2					100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

APR
MONTH

ALL WEATHER
CLASS

1500-1730
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	4.1	2.4	1.0								8.6	6.7
NNE	1.0	1.4	.2									2.5	4.1
NE	.3	1.4	.5	.2	.2							2.5	6.6
ENE	.3	1.4	.5	.3								2.5	6.7
E		1.6	2.2	2.9	.2							6.8	9.8
ESE		1.4	2.2	1.4	.2							5.2	9.2
SE		1.1	.5	.8								2.4	8.8
SSE		.3	.5	.2								1.0	7.5
S	.2	.8	2.1	1.3	.5							4.8	9.8
SSW		.6	2.7	1.7		.2						5.2	9.9
SW		1.2	1.7	1.7	.2							4.6	10.2
WSW	.2	1.6	1.4	2.2								5.4	9.2
W	.5	1.7	3.5	2.7	.3							8.7	9.3
WNW	.6	2.5	7.7	3.2	.8							14.1	9.1
NW	.5	3.1	4.7	3.8	.2							11.4	9.1
NNW	.6	3.7	3.2	2.9	.3	.2						10.8	8.9
VARBL													
CALM												3.3	
	5.2	27.8	34.4	26.2	2.7	.3						100.0	8.5

TOTAL NUMBER OF OBSERVATIONS

631

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

APR
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	3.7	4.9	2.2								10.5	8.3
NNE	.5	.3		.2								1.0	5.3
NE		1.1	.3									1.4	5.6
ENE	.2	2.2	.2									2.5	4.8
E	.2	4.1	2.2	1.3	.2							7.9	7.5
ESE	.3	2.5	3.3	1.4								7.3	7.6
SE		1.7	1.7	.2								2.9	7.4
SSE		.8	.5									1.3	6.3
S	.2	.3	2.9	.8								4.1	9.2
SSW		.5	1.7	1.3	.2							3.7	10.1
SW	.2	.3	2.4	1.6								4.5	9.8
WSW	.2	.8	2.1	1.1								4.1	9.0
W	.3	2.5	2.1	.6								5.6	7.1
WNW	.2	4.1	2.5	1.9	.3							8.9	8.1
NW	.3	3.7	4.5	3.7	.3	.2						12.6	9.2
NNW		1.9	7.2	5.1	.3							14.6	9.9
VARBL													
CALM												7.2	
	2.7	29.1	38.2	21.3	1.4	.2						100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 629

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229 PORTLAND IAP OR 73-79 APR
STATION STATION NAME YEARS MONTH
ALL WEATHER 2100-2400
CLASS HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	3.3	2.4	1.1								7.11	7.4
NNE	.3	.2										.5	3.7
NE	.5	.5										1.0	4.3
ENE	1.0	1.6		.2								2.7	4.3
E	.6	4.0	.5	.3								5.4	5.3
ESE	.8	3.7	3.7	1.0								9.0	7.0
SE	.5	1.3	.3	.3								2.4	6.1
SSE		.8	1.0	.2								1.9	7.4
S	.2	1.7	2.5	1.4								5.0	8.1
SSW	.3	.3	1.3	.5	.3							2.7	9.5
SW	.3	1.1	.6	1.1	.3							3.5	9.0
WSW	.5	.8	.5	.5								2.2	6.9
W	1.1	5.7	2.7	.3								9.8	5.9
WNW	.2	4.7	3.3	.8								8.3	7.3
NW	.3	4.1	6.8	1.0								12.2	7.5
NNW	.8	3.2	7.3	1.6								12.5	7.7
VARBL													
CALM												13.0	
	7.5	36.2	32.5	10.2	.6							121.0	6.2

TOTAL NUMBER OF OBSERVATIONS 637

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

APR
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L & T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	3.3	1.7	.6								6.3	6.4
NNE	.4	.8	.1	.0								1.4	4.6
NE	.3	1.1	.2	.0	.0							1.6	5.0
ENE	.5	1.6	.4	.1								2.6	5.1
E	.5	2.9	1.2	1.0	.1							5.7	7.2
ESE	.6	3.5	2.5	1.1	.1	.0						7.8	7.1
SE	.3	1.8	1.1	.4								3.5	6.5
SSE	.1	1.0	.8	.1								2.0	6.4
S	.5	1.8	3.2	1.8	.2	.0						7.6	8.6
SSW	.2	1.1	2.3	2.3	.3	.0						6.2	9.9
SW	.2	1.2	1.7	1.5	.1	.0						4.7	9.3
WSW	.2	1.3	1.2	.8			.0					3.6	8.6
W	.7	3.3	2.9	.8	.1							7.7	7.0
WNW	.5	3.8	3.4	1.3	.2	.0						9.2	7.6
NW	.6	3.2	3.1	1.3	.1	.0						8.2	7.6
NNW	.5	2.9	3.1	1.4	.1	.0						7.6	8.0
VARBL													
CALM												14.3	
	6.8	34.2	28.8	14.5	1.2	.2	.0					100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 5138

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

MAY
MONTH

ALL WEATHER
CLASS

1011-7200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.7	3.5	2.3									7.5	5.4
NNE	.8	.6										1.4	3.6
NE	.3	.6										.9	3.7
ENE	.3	1.7										2.1	4.3
E	1.2	3.7	.2									5.1	4.3
ESE	.8	4.6	1.5	.3								7.2	5.8
SE	.9	3.5	.8									5.2	5.7
SSE	.2	1.2	.8									2.2	5.9
S	.6	2.3	2.6	1.4								6.6	7.6
SSW	.3	2.5	3.3	1.8	.2							7.8	8.6
SW	.3	2.1	1.1	.6								4.0	7.1
WSW	.6	1.2	.3	.2								2.3	5.2
W	.6	3.4	1.4									5.4	5.5
WNW	1.1	3.4	1.8									6.3	5.5
NW	2.1	7.5	3.1	.8	.2							13.5	6.1
NNW	.5	4.1	5.5	.6								17.8	6.9
VARBL													
CALM												11.8	
	12.1	45.6	24.4	5.7	.3							103.0	5.4

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

MAY
MONTH

ALL WEATHER
CLASS

3300-2500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	3.5	.6									5.2	4.9
NNE	.6	1.6										2.5	4.1
NE	.8	.9	.2									1.8	4.0
ENE	.9	1.1										2.0	3.5
E	1.4	1.5		.2								3.1	4.5
ESE	.8	4.8	2.2	.2								7.8	5.5
SE	.9	3.1	1.4									5.4	5.3
SSE	.8	2.9	.9									4.6	5.1
S	1.8	3.2	3.8	1.7	.2							10.8	7.4
SSW	.8	3.2	3.5	1.4	.3	.2						9.4	8.0
SW	.2	1.1	2.2	1.1								4.5	8.4
WSW	.5	1.4	.6									2.5	5.1
W	.9	4.5	.6									6.0	4.9
WNW	.2	3.5	.9									4.0	5.5
NW	.9	3.8	1.7									6.5	5.5
NNW	.6	4.1	2.2									6.9	5.6
VARBL													
CALM												16.6	
	13.1	44.5	20.7	4.5	.5	.2						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

MAY
MONTH

ALL WEATHER
CLASS

0600-1800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.8	1.1	.2								5.5	5.1
NNE	.5	.9	.5									1.8	5.2
NE	.6	1.2										1.8	3.9
ENE	1.2	1.2										2.5	3.6
E	.8	2.5	.2									3.4	4.2
ESE	.8	2.8	2.3	.3								6.1	6.1
SE	1.1	2.1	.8	.3								4.1	5.6
SSE	.5	1.5	.6	.2								2.8	5.4
S	1.1	4.6	3.8	1.8								11.5	7.1
SSW	.5	1.7	2.8	2.6	.2							7.7	9.6
SW	.6	1.8	2.8	2.0								7.2	8.3
WSW	.5	1.8	.8	.2								3.2	6.0
W	.6	2.5	2.2									5.2	6.1
WNW	1.2	4.1	1.2									6.6	5.4
NW	.5	4.1	1.4									5.8	5.4
NNW	.8	4.1	2.5	.2								7.5	6.2
VARBL													
CALM												17.1	
	12.6	39.8	22.7	7.7	.2							100.0	5.2

TOTAL NUMBER OF OBSERVATIONS

651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229 STATION PORTLAND IAP OR STATION NAME 73-79 YEARS MAY MONTH 0900-1100 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	6.1	1.7									8.4	5.4
NNE	.5	2.8	.6									3.8	5.0
NE	.6	2.2	.3									3.1	4.6
ENE	.6	2.8	.6		.7							4.1	5.6
E	.5	2.1	.3	.8								3.5	7.2
ESE	.3	.6	.5									1.4	5.8
SE	.3	.3	.2									.8	4.8
SSE		.9	.6	.2								1.7	6.8
S		.9	4.6	2.8								8.3	9.7
SSW	.2	1.1	2.9	4.1	.2							8.4	10.9
SW		2.1	3.7	1.7	.5							7.8	8.8
WSW	.6	1.7	1.8	1.5								5.7	7.9
W	1.1	3.7	4.3	.3								9.4	6.5
WNW	.5	6.5	5.4	.8								13.1	6.6
NW	.6	4.9	3.4	.6								9.5	6.4
NNW	.8	4.1	3.1									8.0	6.2
VARBL													
CALM												2.9	
	7.1	42.5	33.9	12.7	.8							100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

MAY
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	5.8	3.7	.5								14.6	6.4
NNE	.2	2.5	.6									3.2	5.5
NE	.6	2.6	.5									3.7	5.1
ENE	.5	1.4	.9	.2	.2							3.1	6.9
E	.2	1.5	.5	1.2	.6							4.7	10.6
ESE	.3	.2	.5	.6								1.5	8.8
SE	.2	.2	.6	.3								1.2	7.9
SSE		.6	.3	.2								1.1	7.4
S	.2	.2	2.6	3.7								6.6	10.7
SSW	.2	.6	1.7	2.2	.3	.2						5.1	11.1
SW	.6	.9	2.2	2.6	.5							6.8	10.1
WSW	.3	1.8	2.5	.8	.2							5.5	7.6
W	.5	2.1	5.7	1.4								9.8	8.2
WNW		3.5	7.4	2.8	.2							13.8	8.8
NW	.2	3.8	5.5	2.8	.2							12.4	8.5
NNW	.3	3.7	3.8	1.8	.3	.2						10.1	8.4
VARBL													
CALM												1.4	
	4.6	11.3	39.2	21.9	2.3	.3						102.0	8.3

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

MAY
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	4.6	5.2	5.1								15.1	8.7
NNE		1.5	.2									1.7	5.2
NE		1.4	.2									1.5	5.8
ENE	.2	.8	1.1	.6								2.6	7.7
E	.5	1.2	1.1	1.4								4.1	8.3
ESE		.3	1.1	.9								2.3	9.7
SE		.6	.5									1.1	7.0
SSE		.2	.9	.2								1.2	9.1
S	.2	.8	1.7	2.2								4.8	9.4
SSW		.5	1.7	1.5	.2							3.8	10.2
SW	.3	.6	1.4	2.6	.2							4.9	11.4
WSW	.2	.8	2.1	1.4	.6							5.2	10.1
W	.3	1.5	5.2	3.8	.3							11.2	9.7
WNW	.3	1.3	7.8	2.0								12.0	8.7
NW	.2	2.5	5.7	4.0	.6							12.9	9.8
NNW	.2	3.5	5.5	4.6	.3							14.1	9.3
VARBL													
CALM												1.4	
	2.2	22.6	41.5	30.3	2.2							111.3	9.2

TOTAL NUMBER OF OBSERVATIONS

651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

20229 STATION PORTLAND IAP OR STATION NAME 73-79 YEARS MAY MONTH
ALL WEATHER CLASS 1800-2000 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.9	6.5	4.9	.2							14.9	9.4
NNE	.2	.8	.6									1.5	5.7
NE		1.1	.3									1.4	5.8
ENE	.3	.9	.5	.3								2.0	6.5
E		2.2	.9	.9								4.0	7.4
ESE		1.8	2.5	.3								4.6	7.6
SE		.8	1.7	.3								2.8	8.1
SSE	.2	.6	1.1	.2								2.1	7.1
S	.2	1.4	1.5	.5								3.5	7.3
SSW		.5	1.7	.5								2.6	8.3
SW		.8	1.2	.2								2.2	7.9
WSW	.3	.8	1.4	1.1	.2							3.7	9.1
W	.3	3.2	3.2	2.3								9.1	8.5
WNW		3.5	3.8	2.5	.2							10.0	8.6
NW	.3	2.2	5.1	6.3	.3							19.1	10.5
NNW	.2	2.6	8.4	7.8	.3							19.4	10.0
VARBL													
CALM												2.3	
	2.3	26.1	40.4	28.0	1.1							152.0	8.7

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

20229 PORTLAND IAP OR 73-79 MAY
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION
2100-2300
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.5	3.5	1.2								7.7	7.6
NNE	.2	.6	.3									1.1	5.9
NE	.2	.2	.2									.5	5.3
ENE	.6	.3	.2									1.1	4.1
E	.3	1.7	.2	.2								2.3	5.1
ESE	.3	2.8	2.2	.2								5.4	6.6
SE	.2	2.6	1.5	.2	.2							4.6	6.8
SSE	.2	.6	.9									1.7	6.5
S	.3	2.5	1.4	.8								4.9	7.7
SSW	.2	1.8	1.5	.6								4.1	7.1
SW		.9	1.4	.8								3.1	8.3
WSW	.2	2.6	1.1	.2								4.0	5.9
W	.8	3.7	4.6									9.1	6.3
WNW	.8	4.8	5.2	.5								11.2	6.7
NW	.5	3.7	9.7	2.5								16.3	8.1
NNW	.3	4.6	8.3	3.5								16.7	8.4
VARBL													
CALM												6.5	
	5.2	35.8	42.1	10.4	.2							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229 STATION PORTLAND IAP OR 73-79 YEARS MAY MONTH
STATION NAME CLASS ALL WEATHER ALL HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	4.7	3.1	1.5	.7							9.4	7.2
NNE	.3	1.4	.3									2.1	5.2
NE	.4	1.3	.2									1.8	4.9
ENE	.6	1.3	.4	.1	.7							2.4	5.5
E	.6	2.0	.4	.6	.1							3.7	6.5
ESE	.4	2.2	1.6	.3								4.6	6.5
SE	.4	1.6	.9	.1	.7							3.1	6.0
SSE	.2	1.1	.8	.1	.7							2.2	6.2
S	.5	2.7	2.8	1.8	.7							7.1	6.2
SSW	.2	1.5	2.4	1.8	.7	.7						6.1	9.2
SW	.2	1.3	2.7	1.4	.1							5.0	8.8
WSW	.4	1.5	1.3	.7	.1							4.0	7.5
W	.6	3.1	3.4	1.0	.7							8.1	7.3
WNW	.5	3.9	4.2	1.1	.7							9.7	7.3
NW	.6	4.1	4.4	2.1	.2							11.4	7.8
NNW	.4	3.9	4.9	2.3	.1	.7						11.7	8.7
VARBL													
CALM												7.5	
	7.4	16.0	33.2	15.0	.9	.1						111.0	6.9

TOTAL NUMBER OF OBSERVATIONS 528

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUN
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	7.6	6.2	.5								15.4	6.2
NNE	.5	1.3	.5									2.2	5.1
NE	1.1	.6	.3									1.9	4.3
ENE	.6	.5										1.1	3.7
E	.6	2.2	.2									3.0	4.3
ESE	1.1	2.2	.3									3.7	4.3
SE	.3	1.3	.5									2.1	5.2
SSE	.3	.8	.2									1.3	4.9
S	.2	2.9	1.9	.3								5.2	6.7
SSW	.5	1.1	.8	1.0	.2	.2						3.5	9.0
SW	.2	1.1	1.3	.6	.3							3.3	8.8
WSW	.3	1.3	.3									1.9	5.0
W	1.1	1.7	.5									3.2	4.8
WNW	.6	3.2	2.1	.2								6.0	5.8
NW	.5	8.9	6.5	1.0								16.9	6.7
NNW	.5	7.8	9.5	1.3	.2							19.2	7.2
VARBL													
CALM												10.0	
	9.2	44.2	31.0	9.8	.6	.2						107.0	5.7

TOTAL NUMBER OF OBSERVATIONS

629

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

77-79
YEARS

JUN
MONTH

ALL WEATHER
CLASS

1300-1500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	9.7	6.4	.5								18.2	6.1
NNE	1.1	1.1	.5									2.7	4.6
NE	.5	1.3										1.7	4.2
ENE	.8	.8										1.6	3.8
E	1.1	1.1	.2									2.4	4.0
ESE	1.6	3.7	.3									5.6	4.6
SE	.6	2.2	.8									3.5	5.2
SSE	.5	2.2	1.1									3.7	5.4
S	.8	3.3	1.6	.3								6.0	6.1
SSW	.6	1.7	1.3	.8	.2							4.6	7.4
SW	.3	.6	1.1	.2								2.1	7.4
WSW	.6	1.6	.2									2.4	4.3
W	1.1	3.1	.3									4.5	4.5
WNW	.6	3.5	.6									4.8	4.8
NW	.8	4.1	2.2									7.2	5.9
NNW	.3	5.1	5.1	.5								11.0	6.7
VARBL													
CALM												18.4	
	12.9	45.2	21.1	2.2	.2							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 679

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUN
MONTH

ALL WEATHER
CLASS

1650-0800
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.9	8.6	5.4	.6								16.5	6.0
NNE	.6	2.1	.3									3.0	4.6
NE	.6	1.6										2.2	4.3
ENE	.6	2.1	.2									2.9	4.2
E	1.1	.8	.5	.2								2.5	4.8
ESE	1.1	1.4	1.2									3.7	5.2
SE		1.6	.8									2.4	5.9
SSE		.8	.6	.2								1.6	7.1
S	.2	3.5	2.7	.3								6.7	6.8
SSW		2.5	1.9	1.7								6.2	8.1
SW	.2	.8	1.9	1.3								4.1	8.7
WSW	.2	1.7	.6									1.7	5.8
W	1.1	1.3	1.1	.2								3.5	5.2
WNW	1.7	3.2	1.1									6.0	4.9
NW	1.7	6.2	3.8									11.0	5.9
NNW	1.3	4.5	4.8	.8								11.3	6.8
VARBL													
CALM												14.6	
	11.5	41.3	26.7	5.2								100.0	5.2

TOTAL NUMBER OF OBSERVATIONS

629

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUN
MONTH

ALL WEATHER
CLASS

1957-1959
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	9.3	4.8	.2								15.1	5.4
NNE	.6	3.5	.3									4.4	7.0
NE	.3	3.2										3.5	5.6
ENE	.3	2.5	.5									3.3	5.3
E	.2	1.6	.8	.2								2.7	6.4
ESE	.2	.2	.6	.3								1.3	7.6
SE	.3	.6	.2									1.1	5.1
SSE	.2	1.1	.5									1.7	5.8
S	.2	2.4	2.2	.6								5.4	7.2
SSW	.2	1.3	2.9	1.9	.2							6.3	9.5
SW	.3	1.3	2.9	.8								5.2	7.8
WSW	.2	1.4	1.3	.6								3.5	7.1
W	.5	3.7	2.5	.6								7.3	6.1
WNW	.3	4.1	7.3	.5								12.1	7.1
NW	.3	6.5	5.9	.3								13.7	6.6
NNW	.5	4.8	5.2	.5								11.0	6.8
VARBL													
CALM												5.0	
	6.3	46.2	17.8	6.5	.2							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

JUN

MONTH

ALL WEATHER

CLASS

1200-1400
HOURS (L & T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	5.5	6.5	1.9	.2							15.2	7.4
NNE	.6	2.4	.5									3.5	4.9
NE		3.7	.3									4.0	5.3
ENE	.2	1.9	.5	.3								2.9	6.3
E	.2	1.7	1.4	.2	.2							2.9	7.6
ESE	.2	.5	.3									1.0	5.3
SE	.2	.2	.2									.5	4.7
SSE	.3	.8	.3									1.4	5.3
S	.3	.3	2.2	.8	.2							4.3	5.6
SSW	.3	1.3	1.6	2.7	.6	.2						6.7	10.9
SW		.6	.8	1.1	.2							2.7	11.2
WSW	.6	1.7	2.4	.2	.2							4.3	7.5
W	.2	4.1	5.4	.8								10.5	7.2
WNW		2.9	8.7	2.4								14.0	8.6
NW		3.5	8.9	1.1								13.5	8.7
NNW	.3	2.5	6.7	2.1								11.6	8.2
VARBL													
CALM												1.3	
	3.5	33.5	46.7	13.5	1.4	.2						100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

670

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

20229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUN
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	3.5	7.9	9.6								20.5	9.6
NNE	.2	1.7	.3									2.2	5.3
NE	.2	3.3										3.9	4.3
ENE		1.7	.3									2.1	5.4
E	.2	.8	1.4	.3								2.7	7.6
ESE		.3	1.3									1.6	7.6
SE		.3	.3									.6	7.0
SSE	.2	.2	.3									.6	6.5
S	.2	.3	1.9	.6	.2	.2						3.3	9.7
SSW		.2	1.6	2.1	.8							4.6	12.4
SW		.5	.8	1.4								2.7	9.9
WSW	.2	.3	1.4	.8								3.2	8.3
W	.2	1.4	4.3	1.4								7.3	9.0
WNW		2.7	7.6	2.7								13.0	8.5
NW		3.3	6.2	4.9	.3							14.8	9.5
NNW		2.5	6.8	8.1	1.1	.2						18.6	10.7
VARI													
CALM												.8	
	1.6	21.6	42.5	31.0	2.2	.3						100.0	9.3

TOTAL NUMBER OF OBSERVATIONS

630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUN
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		3.7	17.3	17.0	1.7							24.9	10.3
NNE	.3	.8	.3	.3								1.7	7.0
NE	.2	.3	.2									.6	5.8
ENE	.3	1.7	.3									1.6	5.2
E	.2	1.9	1.3									3.3	6.2
ESE		.8	1.1	.2								2.1	7.1
SE		.5	.3									.8	5.8
SSE	.2		.8									1.0	7.3
S		.6	1.3	.3								1.9	8.6
SSW		.5	1.6	.6	.3	.2						3.2	10.5
SW		.3	1.7	.5	.2							1.9	10.6
WSW		.3	1.6	.3								2.2	8.9
W	.2	1.4	2.7	.3								5.1	7.8
WNW		2.1	4.1	1.9	.2							8.3	8.9
NW	.2	1.1	5.7	7.9	.5							15.4	10.9
NNW		1.4	9.4	12.5	1.7							25.1	11.2
VARBL													
CALM												1.0	
	1.4	16.7	41.6	35.4	3.8	.2						100.7	9.8

TOTAL NUMBER OF OBSERVATIONS 631

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUN
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	4.3	8.8	2.7								12.6	5.3
NNE		.6	.6	.2								1.4	6.9
NE	.2	.2										.3	3.5
ENE	.2	.8										1.0	4.2
E	.2	.8		.2								1.1	6.1
ESE		1.4	1.0									2.4	5.9
SE	.2	.6	.8									1.6	6.3
SSE		.3	.3									.6	7.5
S		1.3	1.0	.5								2.7	7.3
SSW		.6	1.0	.8	.3							2.7	9.9
SW		1.1	1.4	.2								2.7	7.8
WSW		2.4	1.1									3.5	6.2
W	.5	3.8	2.1	.3								6.7	6.3
WNW	.3	4.6	5.2	1.6	.3							12.5	7.5
NW	.2	4.1	11.9	2.2	.2							18.6	8.2
NNW	.2	5.9	12.9	5.1								24.0	8.7
VARBL													
CALM												2.7	
	2.9	32.9	47.6	13.7	.8							120.3	7.7

TOTAL NUMBER OF OBSERVATIONS 635

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUN
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	6.5	7.0	3.1	.1							17.6	7.7
NNE	.5	1.7	.4	.1								2.7	5.2
NE	.4	1.5	.1									2.0	4.7
ENE	.4	1.4	.2	.0								2.0	5.0
E	.5	1.3	.7	.1	.7							2.6	5.9
ESE	.5	1.3	.8	.1								2.6	5.6
SE	.2	.9	.5									1.6	5.5
SSE	.2	.8	.5	.0								1.5	5.9
S	.2	1.9	1.8	.5	.7	.0						4.4	7.4
SSW	.7	1.1	1.6	1.4	.3	.1						4.7	9.7
SW	.1	.8	1.4	.8	.1							3.1	8.1
WSW	.3	.2	1.1	.2	.7							2.8	6.8
W	.6	2.6	2.3	.5								6.0	6.7
WNW	.5	3.3	4.6	1.2	.1							9.6	7.5
NW	.4	4.7	6.4	2.2	.1							13.8	7.9
NNW	.4	4.3	7.5	3.9	.4	.7						16.5	8.7
VARBL													
CALM												6.5	
	6.1	35.2	36.9	14.0	1.2	.1						107.0	7.1

TOTAL NUMBER OF OBSERVATIONS

5137

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUL
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	11.3	7.5	.5								20.6	6.2
NNE	1.2	1.5	.2									2.9	4.2
NE	2.7	1.2										3.2	3.6
ENE	.9	1.1										2.0	3.8
E	1.2	1.7										2.9	4.1
ESE	.5	1.1	.5									2.1	5.1
SE	.5	.6	.3									1.4	4.8
SSE		.9	.2									1.1	5.6
S		.8	.6	.7								1.5	6.9
SSW		.6	.8	.8	.7							2.3	9.4
SW	.2	.6	.3	.3								1.4	6.6
WSW	.5	.6	.3									1.4	5.0
W	.3	2.3	.7									2.9	4.6
WNW	.8	3.7	1.5									6.0	5.5
NW	.9	7.7	8.6	.5								17.2	6.6
NNW	.8	11.5	10.1	1.2								23.7	6.8
VARBL													
CALM												7.5	
	12.0	45.8	31.2	3.4	.2							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUL
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	11.4	4.8	.2								18.0	5.6
NNE	.9	2.5										3.4	4.1
NE	1.1	1.1										2.2	3.6
ENE	.8	.9										1.7	3.7
E	.8	.8	.2									1.7	4.2
ESE	2.2	4.3	.2									6.6	4.2
SE	.3	1.5	.3									2.2	5.1
SSE		1.5	.3									1.8	5.4
S	.6	1.5	1.1	.3								3.5	6.6
SSW		1.4	.6	.2	.2							2.3	7.2
SW	.5	.8	.2	.2								1.5	5.4
WSW	.9	1.2		.2								2.3	4.6
W	1.1	4.3	.2									5.2	4.4
WNW	.5	2.8	.3									3.5	5.0
NW	.5	6.5	4.0	.2								11.1	6.1
NNW	1.2	17.9	8.8									20.9	6.3
VARBL													
CALM												12.1	
	12.9	53.0	20.7	1.1	.2							100.0	4.8

TOTAL NUMBER OF OBSERVATIONS

651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229 PORTLAND IAP OR 73-79 JUL
STATION STATION NAME YEARS MONTH

ALL WEATHER
CLASS

7600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	10.3	8.6	.8								21.8	6.2
NNE	1.2	3.8	.3									5.4	4.4
NE	1.2	1.7	.2									3.1	4.0
ENE	.9	1.4										2.3	3.9
E	.8	2.0	.5									3.2	4.7
ESE	.3	2.3	.3									2.6	4.8
SE		.8	.8									1.5	6.3
SSE	.3	1.7	.8									2.8	5.8
S	.2	2.8	2.0									4.9	6.4
SSW	.5	1.2	1.5		.2							3.4	6.6
SW	.2	1.1	.2	.3								1.7	5.3
WSW	.3	1.8	.2									2.3	4.4
W	.6	2.8	.2	.2								3.7	5.1
WNW	.5	3.8	1.2									5.5	5.1
NW	1.2	4.8	2.8	.2								8.9	5.8
NNW	1.4	8.2	6.2	.3								16.2	6.0
VARBL													
CALM												10.8	
	11.7	50.2	25.5	1.7	.2							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 850

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUL
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	10.1	6.3	.2								17.1	6.1
NNE	.2	4.1	.5									4.8	5.4
NE	.6	2.9	.5									4.0	5.0
ENE	.6	1.5	.3									2.5	5.1
E	.2	.6	.6									1.4	5.7
ESE	.2	.6	.2									.9	5.0
SE	.2	.3	.5									.9	6.2
SSE		.5	.3	.3								1.1	8.3
S		1.8	1.5	.8	.2	.2						4.5	9.0
SSW	.3	1.5	.6	.2								2.6	6.5
SW	.3	1.4	.3	.3								2.3	6.1
WSW	.5	1.8	.6	.3								3.2	6.0
W	.2	5.7	3.1	.2								9.1	6.0
WNW	.5	7.7	5.2	.6								14.0	6.3
NW	2.3	5.5	7.4	.3								15.5	6.3
NNW	.6	7.7	4.5	.3	.2							13.2	6.2
VARBL													
CALM												3.1	
	7.1	53.9	32.1	3.4	.3	.2						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229 PORTLAND IAP OR 73-79 JUL
STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION
1200-1400
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	8.1	5.5	1.4								15.1	6.9
NNE	1.1	4.1	.5	.2								5.8	5.1
NE		.9	.5									1.4	6.2
ENE		2.5	1.1	.2								3.7	6.2
E	.3	.6	1.4	.2								2.5	7.3
ESE		.6	.2									.8	5.0
SE	.2	.2	.2									.5	5.7
SSE		.2	.2									.3	7.1
S	.2	.3	.5	.5	.3	.2						1.8	11.5
SSW	.2	.5	1.1	.8	.2							2.6	9.5
SW	.2	.6	.8									1.5	8.9
WSW		1.8	.9	.2								2.9	6.5
W		3.1	5.8	.8								9.7	7.5
WNW	.3	4.0	11.5	1.7	.2							17.7	8.0
NW		4.5	12.7	1.2								18.4	8.0
NNW	.2	3.8	7.2	1.1								14.3	8.4
VARBL													
CALM												1.1	
	2.6	35.6	49.9	17.0	.6	.2						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUL
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	4.9	9.1	6.5								23.7	9.2
NNE	.2	3.5	.6	.2								4.5	5.5
NE	.3	1.4	.8	.2								2.6	6.0
ENE	.2	.8	.2	.3								1.4	6.7
E	.2	.6	1.2									2.3	6.2
ESE		.3	.2									.5	7.0
SE		.5	.2									.6	5.3
SSE													
S		.5	1.1	.3								1.8	8.8
SSW		.3	.3	.2	.2							.9	10.0
SW	.2	.8	.3	.6								1.8	7.7
WSW		.3	.6	.3	.2							1.4	9.9
W	.2	1.8	2.5	1.2								5.7	8.2
WNW		1.2	8.4	1.7								11.4	8.7
NW	.3	3.2	9.1	4.8	.9							18.3	9.5
NNW	.2	3.4	10.3	17.4	1.5							25.8	10.4
VARBL													
CALM												.2	
	1.8	23.5	44.7	25.6	2.8							100.0	9.4

TOTAL NUMBER OF OBSERVATION 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUL
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	2.5	11.4	9.7	.7							24.0	10.1
NNE	.5	.8	.6	.3								2.2	6.5
NE	.2	.6	.7									.9	4.7
ENE		.6	.3									.9	6.0
E	.5	1.1	.3									1.8	5.2
ESE		.6	.9									1.5	6.7
SE		.2	.5									.6	7.8
SSE		.5	.3	.2								.9	7.2
S		.5	.3									.8	6.8
SSW		.3	.2	.5								.9	9.7
SW		.3	.2									.5	6.3
WSW		.5	.9	.2								1.5	8.4
W		.9	1.5	.2								2.6	7.4
WNW		1.4	3.5	.3								5.2	7.8
NW	.2	2.0	7.5	5.4	.3							16.1	9.6
NNW		3.2	16.7	18.0	.8							38.7	10.6
VARBL													
CALM												.8	
	1.5	16.6	45.3	34.6	1.2							100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUL
MONTH

ALL WEATHER

CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	4.6	9.7	2.5								16.9	8.1
NNE	.3	.3	.8									1.4	6.1
NE	.5	.6										1.1	3.7
ENE	.2	.3										.5	4.0
E	.6	.8	.5									1.8	4.7
ESE		.9	.5									1.4	6.2
SE		.3	.2									.5	5.3
SSE			.8									.8	8.6
S		.2	.6	.2								.9	9.0
SSW		.5		.6								1.1	9.9
SW	.2	.2										.3	4.0
WSW	.2	.5	.2									.8	5.4
W	.8	2.8	1.1	.2								4.8	5.7
WNW	.2	4.8	5.2	.5								10.6	6.9
NW	.3	6.5	15.1	1.5								23.4	7.8
NNW	.2	6.5	18.9	5.7								31.2	8.4
VARBL													
CALM												2.6	
	3.4	29.5	53.4	11.2								100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

650

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUL
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	7.8	7.8	2.7	.7							19.3	7.4
NNE	.7	2.6	.4	.1								3.8	5.0
NE	.7	1.3	.2	.0								2.3	4.6
ENE	.4	1.1	.2	.1								1.9	5.0
E	.6	1.7	.6	.0								2.2	5.2
ESE	.4	1.3	.3									2.0	5.0
SE	.1	.5	.3									1.0	5.6
SSE	.7	.7	.3	.1								1.1	6.4
S	.1	1.7	1.7	.3	.1	.0						2.5	7.9
SSW	.1	.8	.6	.4	.1							2.0	8.1
SW	.2	.7	.3	.2								1.4	6.4
WSW	.3	1.1	.5	.1	.7							2.7	6.1
W	.4	2.9	1.8	.3								5.5	6.3
WNW	.3	3.7	4.6	.6	.7							9.2	7.1
NW	.7	5.1	8.4	1.7	.2							16.1	7.7
NNW	.6	6.9	10.3	4.9	.3							23.0	8.3
VARBL													
CALM												4.8	
	8.6	38.5	37.9	11.5	.7	.0						108.0	6.9

TOTAL NUMBER OF OBSERVATIONS

5206

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

AUG
MONTH

ALL WEATHER
CLASS

8000-8200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	8.6	6.7	.3		.2						16.4	6.2
NNE	.9	1.7	.3									2.9	4.5
NE	.5	1.1										1.5	4.0
ENE	.2	.5										.6	4.0
E	.5	1.4										1.8	4.7
ESE	.6	2.7	.9									3.5	5.5
SE	.2	1.7	1.4	.2								3.4	6.3
SSE	.2	.6	.3	.2								1.5	5.9
S	.8	2.3	1.5	.6								5.2	6.6
SSW	.5	1.1	1.8	.9								4.3	8.0
SW	.3	.2	.8									1.2	6.9
WSW	.5	1.4										1.8	4.1
W	.8	1.8										2.6	4.0
WNW	.8	3.5	1.2									5.5	5.2
NW	.9	6.1	7.4									14.4	6.4
NNW	.5	12.0	8.4	.6								21.5	6.4
VARBL													
CALM												11.5	
	9.2	46.2	30.1	2.8		.2						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

AUG
MONTH

ALL WEATHER
CLASS

1300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	11.1	3.5									15.7	5.4
NNE	.9	2.3										3.2	4.2
NE	.5	1.7										2.2	4.1
ENE	.5	.8										1.2	4.1
E	.3	.6										.9	4.2
ESE	.9	3.5	1.4									5.8	5.2
SE	1.2	2.9	1.2	.2								5.5	5.1
SSE	.6	1.4	.2									2.2	4.4
S	1.2	3.7	1.4	.5								6.8	5.8
SSW	.3	1.2	1.2	.3								3.1	7.0
SW	.5	2.1	.5	.5	.2							3.5	6.8
WSW	.9	1.7										2.6	4.1
W	.8	1.7										2.5	4.2
WNW	.9	2.6	.6									4.1	4.8
NW	.5	6.5	3.4	.3								10.6	6.0
NNW	.8	12.1	5.2	.5								18.6	5.9
VARBL													
CALM												11.5	
	11.8	55.8	18.6	2.2	.2							100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

AUG
MONTH

ALL WEATHER
CLASS

0600-1800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.7	9.8	4.1									15.7	5.5
NNE	1.5	2.6	.6									4.8	4.4
NE	.8	2.3										3.1	4.4
ENE	.3	.6	.2									1.1	4.4
E	.8	1.7	.2									2.6	4.5
ESE	.5	3.2	1.2									4.9	5.5
SE	.5	3.4	1.1	.2								5.1	5.8
SSE	.3	1.2	.2									1.7	4.9
S	.8	4.1	1.4	.2								6.5	5.3
SSW	.5	1.5	1.5	.5								4.0	6.7
SW	.5	1.2	1.4	.8	.3							4.1	8.3
WSW	.8	1.7	.6	.2								3.2	5.1
W	1.2	2.3	.2									3.7	4.3
WNW	1.2	2.7	.2									3.4	4.1
NW	.9	6.5	3.5	.2								11.1	6.1
NNW	1.4	6.3	5.5	.2								13.4	6.2
VARBL													
CALM												11.8	
	13.5	50.5	21.8	2.0	.3							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229 STATION PORTLAND IAP OR 73-79 YEARS AUG MONTH
ALL WEATHER CLASS 8900-1100 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	11.0	2.8									14.9	5.1
NNE	1.1	4.6										5.7	4.4
NE	1.1	2.6	.3									4.1	4.7
ENE	.9	2.5	.3									3.7	4.5
E	.2	1.2	.6									2.1	5.6
ESE	.2	.5	.9									1.4	6.3
SE	.3	1.4	.9	.2								2.8	6.1
SSE	.3	.8	.5	.2								1.7	5.8
S	.7	2.3	3.1	.5	.2							6.1	7.7
SSW	.6	1.1	1.4	.5								3.5	6.9
SW	.2	1.2	1.8	1.7								4.9	9.2
WSW	.6	1.2	.5	.3								2.6	6.0
W	1.1	4.0	2.0									7.1	5.5
WNW	.8	5.5	2.6	.2								10.0	5.8
NW	.8	8.3	3.7	.2								12.9	5.9
NNW	.2	7.7	5.5	.2								13.5	6.3
VARBL													
CALM												3.2	
	10.4	55.8	26.7	3.7	.2							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

AUG
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	4.9	3.8	.8								10.4	6.6
NNE	.5	2.8	.3									3.5	5.0
NE	.2	2.2	.2									2.5	5.2
ENE		1.5	.8									2.3	5.1
E		1.2	.6	.2								2.0	6.6
ESE	.3	.6	1.1									2.0	6.3
SE		.9	.5									1.4	5.9
SSE	.2	.6	.3	.5								1.5	8.7
S		.8	2.5	1.1								4.3	9.3
SSW		.3	1.4	2.0	.2							3.8	10.6
SW		.5	.9	.9								2.3	10.5
WSW	.3	1.5	1.2	.2								3.2	6.3
W	.3	2.5	5.1	.8								8.6	7.6
WNW	.9	5.1	10.3	1.4								17.7	7.6
NW	.5	5.2	12.9	1.7								20.3	7.7
NNW	.5	4.9	6.6	1.2								13.2	7.4
VARBL													
CALM												.9	
	4.5	35.5	48.4	10.6	.2							100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

AUG
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	3.4	7.4	4.5	.6							16.1	9.4
NNE	.5	2.2	1.2									3.8	5.8
NE		.5	.3									.8	5.8
ENE	.3	1.1	.6									2.0	5.5
E	.3	.6	1.5	.3								2.8	7.1
ESE		.3	.9	.3								1.5	8.3
SE	.2	.6	.6	.3								1.7	7.2
SSE		.6	.3									.9	6.5
S	.2		1.2	.5								1.8	9.4
SSW		.9	2.0	.3								3.2	7.7
SW		.5	1.5	.2								2.2	8.1
WSW		1.1	.8	.8								2.6	8.4
W	.5	1.7	3.5	.9								6.6	7.4
WNW		1.8	7.7	1.5								11.1	8.3
NW	.3	4.3	9.7	3.2	.2							17.7	8.4
NNW	.2	3.1	11.4	9.7	.2							24.4	10.0
VARBL													
CALM												.8	
	2.6	22.6	51.7	22.6	.9							100.0	8.6

TOTAL NUMBER OF OBSERVATIONS

651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

AUG
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	4.3	7.5	7.1	.2							19.2	9.3
NNE	.3	1.5		.2								2.0	5.2
NE	.2	.3										.5	4.7
ENE	.2	.9										1.1	4.4
E	.3	1.2	.5									2.1	5.2
ESE		1.5	1.4	.2								3.1	6.8
SE	.2	.6	.8	.2								1.7	6.8
SSE	.2		.6									.8	7.0
S		.8	2.0	.8								3.5	8.0
SSW		.3	1.2	.3								1.8	9.0
SW	.3	.2	.5	.3								1.2	7.5
WSW	.2	1.4	.5	.2	.3							2.5	7.6
W	.5	1.5	1.2	.8								4.0	6.9
WNW	.2	2.6	2.2	.5								5.4	7.0
NW	.3	1.8	6.9	4.2								13.2	9.5
N:W	.3	4.5	14.2	17.4	.3							36.6	10.3
VARBL													
CALM												1.4	
	3.1	23.5	39.4	31.8	.8							100.0	8.8

TOTAL NUMBER OF OBSERVATIONS

650

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

AUG
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	5.8	7.2	1.1								19.4	7.0
NNE	.3	.8	.2									1.2	4.8
NE	.3	.5										.8	4.0
ENE		.3										.3	4.5
E	.2	1.7	.2	.2								2.2	5.4
ESE		.8	1.1									1.8	6.7
SE	.2	1.2	.6									2.0	5.6
SSE		1.2	.3									1.5	5.4
S	.3	1.4	2.3	.2								4.1	7.1
SSW	.2	.3	.6	.9	.3							2.3	11.0
SW		.6	.3	.8	.2							1.8	9.9
WSW	.3	1.7	.5		.2							2.6	5.7
W	.5	2.6	.3	.2								3.5	4.2
WNW	.6	4.5	3.7									8.8	6.1
NW	.5	6.7	14.3	1.2								22.0	7.7
NNW	.6	6.9	17.5	2.8								27.8	8.0
VARBL													
CALM												2.8	
	4.1	36.3	49.0	7.2	.6							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLINATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

AUG
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	7.2	5.3	1.7	.1	.0						15.4	6.9
NNE	.7	2.3	.3	.0								3.4	4.7
NE	.4	1.4	.1									1.9	4.6
ENE	.3	1.0	.2									1.5	4.9
E	.3	1.2	.4	.1								2.0	5.5
ESE	.3	1.6	1.1	.1								3.0	6.0
SE	.3	1.6	.9	.1								2.9	5.9
SSE	.2	.8	.3	.1								1.5	5.8
S	.4	1.9	1.9	.5	.0							4.8	7.0
SSW	.2	.8	1.4	.7	.1							3.3	8.2
SW	.2	.8	1.0	.6	.1							2.7	8.5
WSW	.4	1.5	.5	.2	.1							2.7	5.9
W	.7	2.3	1.5	.3								4.8	6.1
WNW	.7	3.6	3.6	.4								8.2	6.6
NW	.6	5.6	7.7	1.4	.0							15.3	7.4
NNW	.5	7.2	9.3	4.1	.1							21.1	8.0
VARBL													
CALM												5.5	
	7.4	40.8	35.6	10.3	.4	.0						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

5207

GLOBAL CLIMATOLOGY BRANCH
USAFCTAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

SEP
MONTH

ALL WEATHER
CLASS

1000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	3.5	1.9	.2								6.8	5.6
NNE	.8	1.6	.3									2.7	4.5
NE	.5	.5										1.0	3.7
ENE		.6										.6	4.8
E	.8	.6	.3									1.7	4.6
ESE	.2	4.0	3.2	.8								8.1	6.7
SE	.5	3.3	2.5									6.3	6.1
SSE	.2	2.9	1.9									4.9	6.0
S	1.1	2.7	3.0	.5								7.1	6.5
SSW	.2	.8	.8	.3	.2							2.2	7.6
SW	.5	1.0	.6		.2							2.2	6.3
WSW	.6	1.7										2.4	4.1
W	.8	6.8	.8									8.4	4.9
WNW	1.3	5.7	1.7	.2								8.9	5.5
NW	.5	6.0	3.0	.6								10.2	6.0
NNW	.8	4.4	2.7									7.9	5.7
VARBL													
CALM												16.4	
	9.7	46.2	22.9	2.5	.3							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229 STATION PORTLAND IAP OR STATION NAME 73-79 YEARS SEP MONTH 0300-0500 HOURS (L.S.T.)
ALL WEATHER CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	3.7	1.1									5.9	5.2
NNE	.2	1.7	.2									1.3	4.9
NE	.3	1.1										1.4	4.3
ENE		1.7										1.7	4.5
E	.5	1.4	.5	.2								2.5	5.5
ESE	.5	3.3	2.2	.5								6.5	6.3
SE	1.1	3.8	1.7	.2								6.8	5.5
SSE	.5	2.9	1.0	.2								4.4	5.6
S	1.7	4.9	2.5	.5	.2							9.8	6.1
SSW	.5	2.1	1.4	1.1	.2							5.2	7.4
SW	.5	1.4	.5	.2								2.5	5.3
WSW	.5	2.4	.2									3.0	4.3
W	.8	6.0	.8									7.6	4.8
WNW	.8	5.6	1.3									7.6	5.1
NW	1.1	3.2	1.4	.6								6.3	5.9
NNW	1.0	4.0	1.6	.3								6.8	5.7
VARBL													
CALM												19.3	
	11.0	48.4	16.3	3.7	.3							100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 636

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229 STATION PORTLAND IAP OR 73-79 YEARS SEP NORTH
ALL WEATHER CLASS 1600-1800 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	5.1	1.1									7.5	4.9
NNE	.6	2.4	.3									3.3	4.3
NE	.3	1.7										2.1	4.0
ENE	.5	2.1										2.5	4.3
E	.5	1.7	.5	.3								3.0	5.7
ESE	.6	3.5	1.6									5.7	5.6
SE	1.1	2.9	1.7	.3								6.0	5.8
SSE	.2	2.1	1.6									3.8	5.9
S	1.6	3.5	1.9	.5								7.5	6.0
SSW	.8	2.4	.8	.6	.2							4.8	6.8
SW	.3	1.4	1.3	.8								3.8	7.5
WSW	.6	1.7	.3									1.9	4.4
W	1.4	4.4	1.8									7.3	5.1
WNW	1.0	6.7	3.2									10.2	5.6
NW	1.0	4.4	2.9	.2								8.4	5.9
NNW	.5	3.0	1.1									4.6	5.4
VARBL													
CALM												17.6	
	12.2	47.6	19.7	2.7	.2							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

SEP
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	9.2	2.5	.2								12.7	5.5
NNE	1.7	3.2										4.9	4.3
NE	.8	1.4										2.2	4.1
ENE		2.1	.2	.2								2.4	5.9
E	.3	2.7	1.0	1.3	1.1							6.4	9.4
ESE	.3	.5	1.9	1.1	.2							4.0	9.2
SE	.5	2.4	1.4	.5								4.8	6.3
SSE		1.1	.8	.2								2.1	6.3
S	.5	1.0	2.9	1.1	.2							5.6	8.5
SSW	.3	1.3	1.9	1.9								5.4	8.9
SW	.5	1.7	1.7	1.1								5.1	7.7
WSW	.3	2.1	.5									2.9	5.7
W	.5	3.2	1.4									5.1	5.6
WNW	.6	6.2	4.8	.5								12.1	6.4
NW	.5	5.6	4.3	.2								10.5	6.3
NNW	.6	4.9	2.7	.2								8.4	6.2
VARBL													
CALM												5.6	
	8.3	48.5	28.0	8.3	1.4							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 629

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229 STATION PORTLAND IAP OR STATION NAME 73-79 YEARS SEP MONTH
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	7.2	3.2	1.3								12.7	6.5
NNE	.3	2.7	.6	.5								4.1	6.2
NE	.3	1.7	.6									2.7	5.5
ENE		.5	.6	1.0	.6							2.7	11.8
E	.2	1.1	1.9	7.6	1.0							11.8	12.2
ESE	.3	1.7	2.4	1.1	.5							6.0	9.1
SE		.5	.8									1.3	7.8
SSE	.2	.8	.6	.2								1.7	7.0
S	.3	2.2	2.7	.8								6.0	7.7
SSW	.3	1.0	2.1	1.9	.3							5.6	10.0
SW	.2	1.1	2.1	1.1								4.5	8.9
WSW		2.2	1.1									3.3	6.0
W	.6	2.7	3.3	.5								7.2	6.8
WNW	.3	1.7	5.1	1.0	.2							10.2	7.5
NW	.2	4.0	5.6	1.1								10.8	7.6
NNW		2.9	3.3	.8								7.0	7.5
VARBL													
CALM												2.4	
	4.3	35.9	36.1	18.8	2.5							100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 629

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

SEP
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	4.9	5.6	2.2								13.0	8.0
NNE	.3	2.4	.8	.6								4.6	6.1
NE		.8	.3									1.1	5.9
ENE	.2	1.4	.6	1.9	.6							4.8	10.7
E	.5	1.7	4.7	7.0	.5							13.7	11.1
ESE	.2	1.7	2.5	.5	.2							4.3	8.4
SE		1.7	1.0	.6								2.5	8.1
SSE	.2	.2	.3	.2								.8	7.6
S		1.7	1.9	1.0								3.8	9.0
SSW		.3	1.4	1.9								3.7	10.9
SW		.6	2.1	1.3	.2							4.1	10.2
WSW	.2	.6	1.7	.8								3.3	8.6
W	.3	2.1	2.1	.5	.2							5.1	7.2
WNW	.6	3.8	3.2	.6	.2							8.4	7.1
NW	.2	2.5	4.8	2.1	.2							9.7	8.5
NNW	.5	3.7	6.2	5.1	.2							14.9	9.6
VARBL													
CALM												2.2	
	3.8	27.3	38.4	26.2	2.1							100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

SEP
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	3.2	4.6	2.7								10.8	8.4
NNE	.6	.8	1.1	.3								2.9	6.8
NE	.3	1.1	.2									1.6	4.4
ENE	.5	.6	.5	1.1								2.7	8.4
E	1.1	3.8	2.2	1.7								8.9	7.3
ESE	.3	2.9	2.5	1.9								6.7	7.3
SE		1.6	1.4	.3								3.3	7.2
SSE		.3	.8	.2								1.3	7.4
S	.2	2.4	2.1	.5								5.1	7.1
SSW	.3		1.4	.8								2.5	9.2
SW	.2	1.1	1.1	.5								2.9	7.9
WSW	.6	1.0	1.1	.3								3.0	6.4
W	.2	3.7	.8	.2								4.8	5.5
WNW		4.4	3.5	.3	.2							8.4	7.0
NW	.3	2.7	5.1	2.7								10.8	8.4
NNW	.5	3.5	10.3	4.1	.2							18.6	9.1
VARBL													
CALM												5.9	
	5.4	33.0	38.7	16.7	.3							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

SEP
MONTH

ALL WEATHER

CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	4.9	3.8	.3								9.4	6.4
NNE	.6	.8	.6									2.1	5.4
NE	.6	.6										1.3	3.8
ENE	.5	.8										1.3	4.3
E	.2	1.4	.6	.2								2.4	6.3
ESE	.5	3.2	2.7	.6								7.0	6.8
SE	.8	2.5	2.2	.2								5.7	6.1
SSE	.2	.6	1.9									2.7	7.5
S	.3	3.2	2.4	.3								6.2	6.8
SSW	.2	1.0	1.3									2.4	6.7
SW	1.0	.8	.2									1.9	4.3
WSW	.8	1.9	.3									3.0	4.4
W	1.9	5.4	1.9	.2								9.4	5.0
WNW	.6	7.3	3.7									11.6	6.0
NW	.5	8.3	5.1	.6								14.4	6.4
NNW		4.4	5.9	.8								11.1	7.3
VARBL													
CALM												8.3	
	8.9	47.1	32.5	3.2								109.0	5.7

TOTAL NUMBER OF OBSERVATIONS

637

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

SEP
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	5.2	3.0	.9								9.8	6.5
NNE	.7	1.8	.5	.2								3.2	5.3
NE	.4	1.1	.1									1.7	4.5
ENE	.2	1.2	.2	.5	.2							2.3	7.8
E	.5	1.8	1.4	2.3	.3							6.3	9.4
ESE	.4	2.5	2.4	.7	.1							6.0	7.3
SE	.5	2.2	1.6	.3								4.6	6.3
SSE	.2	1.3	1.1	.1								2.7	6.3
S	.7	2.6	2.4	.6	.0							6.4	7.0
SSW	.3	1.1	1.4	1.1	.1							4.0	8.5
SW	.4	1.2	1.2	.6	.7							3.4	7.7
WSW	.5	1.6	.7	.1								2.9	5.6
W	.8	4.3	1.6	.2	.7							6.8	5.5
WNW	.7	5.3	3.3	.3	.1							9.7	6.3
NW	.5	4.6	4.3	1.0	.1							10.1	6.9
NNW	.5	3.8	4.2	1.4	.7							9.9	7.6
VARBL													
CALM												10.1	
	7.9	41.8	29.1	10.2	.9							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 5038

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

OCT
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	2.1										2.9	4.2
NNE	.2	.5										.6	4.3
NE	.3	.9										1.2	4.5
ENE		.3										.3	4.5
E		.9	.5	.5	.2							2.0	9.1
ESE	.9	4.0	4.6	1.4								10.9	7.1
SE	1.5	3.4	4.2	.3								9.4	6.3
SSE	.5	1.1	.9	.2								2.6	5.8
S	2.3	3.7	1.7	.8								8.5	5.5
SSW	.9	1.7	.9	2.5	.2							6.2	8.8
SW	.9	1.7	.6	.5								3.7	5.8
WSW	.9	2.0	.5									3.4	5.0
W	1.8	5.8	1.1									8.8	4.6
WNW	1.1	3.7	1.1									5.8	5.0
NW	.9	3.5	1.2									5.7	5.5
NNW	.2	4.9	1.7									6.8	5.7
VARBL													
CALM												21.2	
	13.4	40.2	16.9	6.0	.3							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 650

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

OCT
MONTH

ALL WEATHER
CLASS

0300-0500
HOURS (L.O.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.8	2.6	.3									3.7	4.9
NNE	.8	1.7		.2								2.6	4.7
NE	.6	.8										1.4	3.8
ENE	.2	.3										.5	4.3
E	1.1	.5	.3	.8								2.6	7.1
ESE	1.1	4.6	3.8	1.4	.3							11.2	7.2
SE	.8	5.1	3.7	.5								10.0	6.5
SSE	.8	2.2	.8									3.7	5.1
S	1.1	3.8	1.7	.9								7.5	6.6
SSW	.5	1.1	.6	1.4								3.5	8.3
SW	.3	2.0	.5	1.1	.2							4.0	7.7
WSW	.5	1.7	.6	.2	.3							3.4	6.5
W	2.3	5.7	.6									8.6	4.5
WNW	1.1	4.2	.9	.2								6.3	5.1
NW	.9	2.5	1.2	.2								4.8	5.7
NNW	.9	2.6	.8	.2								4.5	5.8
VARBL													
CALM												21.7	
	13.7	41.2	15.8	6.8	.8							100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 657

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

OCT
MONTH

ALL WEATHER
CLASS

3600-0300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	3.1	.5									4.3	5.0
NNE	.5	1.8	.2									2.5	4.4
NE	.2	2.0										2.2	4.9
ENE	.6	.9										1.5	3.8
E	.2	1.5	.2	.5								2.3	6.7
ESE	.5	4.3	4.6	1.5	.2							11.1	7.6
SE	.6	2.5	2.9	1.2								7.2	7.2
SSE	.6	3.2	1.1									4.9	5.5
S	2.2	4.6	1.1	.9								8.8	5.8
SSW	1.2	1.5	1.7	1.8								6.3	8.0
SW	.3	1.7	.5	.9								3.4	7.3
WSW	1.1	1.2	.3	.2								2.8	4.7
W	2.2	6.2	.3									8.6	4.3
WNW	.6	3.7	.6									4.9	5.2
NW	.3	3.2	.9	.2								4.6	5.8
NNW	.6	.9	1.1									2.6	6.0
VARBL													
CALM												22.0	
	12.3	42.5	15.8	7.2	.2							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

650

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

OCT
MONTH

ALL WEATHER
CLASS

3900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.3	5.7	.9	.2								9.4	4.7
NNE	.9	1.5	.9									3.4	5.2
NE	.5	1.4										1.8	4.3
ENE	.6	1.2										1.8	4.1
E	.6	.9	.9	1.2	.3	.2						4.1	9.5
ESE	.3	2.8	4.0	2.5	.3							9.8	8.9
SE	.6	2.3	3.4	.8								7.1	7.5
SSE	.3	1.4	.6	.2								2.5	5.9
S	.8	2.8	2.9	1.8	.3	.2						8.8	8.6
SSW	1.2	1.4	1.8	1.8	1.7	.2						8.1	10.5
SW	.2	.8	.6	1.1	.2							2.8	9.7
WSW	.9	.9	.9									2.8	5.3
W	1.2	3.5	.8									5.5	5.1
WNW	.3	4.9	3.2									8.4	6.0
NW	1.4	3.4	1.8									6.6	5.4
NNW	.6	3.5	1.1	.2								5.4	5.4
VARBL													
CALM												11.7	
	12.7	38.7	24.0	9.7	2.8	.5						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

OCT
MONTH

ALL WEATHER
CLASS

1203-1400
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	4.6	1.2	.5								7.5	5.4
NNE	.3	2.3	.6									3.2	5.2
NE	.3	1.2	.2									1.7	4.9
ENE	.2	1.8	.6	.6	.2							3.4	7.4
E	.3	1.2	2.2	2.9	1.1	.2						7.8	11.3
ESE		1.5	2.6	2.8	.3							7.2	10.1
SE	.2	.6	2.6	1.1								4.5	8.9
SSE		.3	.9	.3								1.5	8.0
S	.5	1.7	3.4	2.6	.3	.2						8.6	9.3
SSW	.3	.9	1.4	2.0	.9	.2						5.7	11.6
SW	.2	.8	2.7	2.2	.2	.2						5.4	10.5
WSW	.5	1.8	.9	.5	.3							4.0	7.3
W	.3	4.5	3.5	.3								8.6	6.4
WNW	.3	3.4	4.2	1.1								8.9	7.4
NW	.5	3.2	2.6	.6								6.9	6.6
NNW	.9	4.8	1.5	.5	.3							8.0	6.2
VARBL													
CALM												6.9	
	5.8	34.8	30.5	17.8	3.5	.6						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

650

GLOBAL CLIMATOLOGY BRANCH
USAFCTAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

OCT
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	3.2	2.8	.8	.2							7.4	7.2
NNE	.3	1.7	.8									2.8	5.5
NE	.2	2.2	.2	.2								2.6	5.0
ENE	.5	1.1	.3	.8								2.6	7.2
E	.9	3.7	1.2	3.4	.8							10.0	9.4
ESE	.3	2.3	2.8	3.4	.2							8.9	9.2
SE		1.5	2.9	1.4								5.8	8.6
SSE		.3	1.1	.2								1.5	7.8
S	.5	.8	3.2	2.2								6.6	8.8
SSW	.2	1.1	2.0	2.0	.5							5.7	10.1
SW	.3	1.2	1.4	.9		.2						4.0	6.7
WSW	.3	1.1	1.4	.2								2.9	6.7
W	.8	4.6	3.8	.3	.2							9.7	6.7
WNW	.2	3.1	3.2	.8								7.2	7.0
NW	.3	2.9	2.2	.9								6.3	7.2
NNW	.3	2.2	3.7	3.2								9.4	8.9
VARBL													
CALM												6.6	
	5.4	12.9	32.9	20.4	1.7	.2						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

OCT
MONTH

ALL WEATHER

CLASS

CONDITION

1800-2000
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.6	1.7	.6								5.5	6.6
NNE	.5	.2	.2									.8	4.6
NE	.2	.6										.8	4.2
ENE	1.2	1.1	.5	.5								3.2	5.5
E	1.2	3.5	1.1	1.7								7.5	7.0
ESE	.3	4.3	5.1	2.2								11.5	7.8
SE	.6	2.2	2.3	.8	.2							6.0	7.4
SSE	.6	2.0	.6	.6								3.8	6.2
S	.6	3.4	1.7	1.2								6.9	7.1
SSW	.5	1.4	1.1	.8	.2							7.8	7.9
SW	.6	1.4	.3		.2							2.5	5.3
WSW	.9	2.3	.9									4.1	4.9
W	.8	4.9	.9	.2								6.8	5.4
WNW	.6	4.0	2.8									7.4	5.8
NW	1.1	3.2	4.0									8.3	6.5
NNW	.5	2.9	3.7	.9								8.0	7.2
VARBL													
CALM												13.1	
	10.8	39.6	26.7	9.4	.5							100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

OCT
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.2	.6									2.5	5.3
NNE	.2	.6										.8	4.4
NE													
ENE	.5	.3	.2									.9	4.3
E	.5	1.8	.8	1.2	.2							4.5	6.1
ESE	1.5	4.8	5.1	.8								12.1	6.6
SE	.6	2.8	4.3	.9	.3							8.9	7.6
SSE	.3	2.0	.3									2.6	4.6
S	.9	2.2	1.7	.9								5.7	6.8
SSW	.9	1.8	1.7	1.4	.2							6.0	7.8
SW	.2	1.8	.6	.3	.2							3.1	7.0
WSW	1.2	1.7	.3									3.2	4.3
W	2.2	6.6	.3									9.2	4.6
WNW	.8	5.7	1.8									8.3	5.2
NW	.8	4.8	3.1									8.6	5.8
NNW	.5	2.5	1.7									4.6	6.0
VARBL													
CALM												19.3	
	11.5	40.6	22.6	5.5	.8							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229 PORTLAND IAP OR 73-79 OCT
STATION STATION NAME YEARS NORTH
ALL WEATHER
CLASS
CONDITION
ALL
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	3.2	1.0	.2	.0							5.4	5.5
NNE	.4	1.3	.3	.0								2.1	5.0
NE	.3	1.1	.0	.0								1.5	4.6
ENE	.5	.9	.2	.2	.0							1.8	5.8
E	.6	1.8	.9	1.5	.3	.0						5.1	8.9
ESE	.6	3.5	4.1	2.0	.2							10.4	7.9
SE	.6	2.5	3.3	.9	.1							7.4	7.3
SSE	.4	1.6	.8	.2								2.9	5.9
S	1.1	2.9	2.2	1.4	.1	.0						7.7	7.3
SSW	.7	1.4	1.4	1.7	.4	.0						5.7	9.3
SW	.4	1.4	.8	.9	.1	.0						3.6	8.0
WSW	.8	1.6	.7	.1	.1							3.3	5.6
W	1.4	5.2	1.4	.1	.0							8.2	5.2
WNW	.6	4.1	2.2	.2								7.2	5.9
NW	.8	3.3	2.1	.2								6.5	6.1
NNW	.6	3.0	1.9	.6	.0							6.1	6.6
VARBL													
CALM												15.3	
	10.7	38.8	23.4	10.4	1.3	.2						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 5274

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

NOV
MONTH

ALL WEATHER
CLASS

0000-0200
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.3	.3									1.9	5.0
NNE	.2	.6	.2									1.0	5.0
NE		1.0	.2	.3								1.4	6.3
ENE	.2	1.3	.2									1.6	4.9
E	.2	1.0	1.0	1.3	.6	1.0	.2					5.1	14.3
ESE	.5	3.2	8.1	5.6	1.3		.2					18.8	10.0
SE	.5	4.3	5.9	3.7	.3							14.6	8.5
SSE	1.0	1.9	1.7	.5								5.1	6.5
S	.5	3.2	1.3	1.9	.3							7.0	8.4
SSW	1.0	.8	1.6	1.7	1.3							6.3	10.2
SW	.6	1.4	1.9	2.9	.3							7.2	9.7
WSW	1.1	1.9	.8	.6								4.5	6.0
W	1.4	4.6	.2	.2	.3							6.7	5.2
WNW	.3	2.5	.8									3.7	5.4
NW		1.6	.2	.5								1.9	6.1
NNW		.6	.3	.2								1.1	7.3
VARBL													
CALM												12.6	
	7.6	21.0	24.3	18.9	4.1	1.0	.3					100.0	7.4

TOTAL NUMBER OF OBSERVATIONS

629

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

NOV
MONTH
1300-0500
HOURS (L.S.T.)

ALL WEATHER
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.7	.3	.2								2.5	5.6
NNE		1.3	.5									1.7	5.8
NE	.3	.3	.3									1.0	4.7
ENE	.2	.5										.6	4.0
E	.8	.6	1.3	1.3	1.0	.8	.2					5.9	13.0
ESE	1.0	2.7	8.7	4.1	.8	.3						17.6	9.5
SE	.6	5.9	3.2	3.0	.3							13.0	8.0
SSE	.5	1.9	1.1	.5								4.0	6.6
S	.3	2.7	2.2	1.6	1.0							7.8	9.1
SSW	.3	1.9	1.9	2.9	.5	.2						7.6	10.0
SW	.2	1.4	1.4	1.7	.3							5.1	9.7
WSW	1.6	2.1	1.6	.6								5.9	6.2
W	1.6	3.7	.3	.2								5.7	4.7
WNW	.8	2.4	.6									3.8	4.9
NW	.2	2.5	1.1									3.8	5.8
NNW	.2	.6	.2	.2	.2							1.3	7.9
VARBL													
CALM												12.6	
	8.7	32.3	24.8	16.2	4.0	1.3	.2					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 629

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229 STATION PORTLAND 1AP OR 73-79 YEARS NOV NORTH
ALL WEATHER CLASS 6600-0800 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.7	1.0									3.5	5.3
NNE	.2	2.1	.3									2.5	4.7
NE	.3	.8										1.1	4.1
ENE		.9	.2									1.0	3.8
E	.2	1.4	1.0	1.6	2.2	.6	.2					7.1	13.8
ESE	.5	3.7	5.6	3.8	.6	.2						14.3	9.3
SE	.6	2.2	5.9	4.4								13.2	8.9
SSE	.6	1.4	1.3	.3								3.7	6.4
S	.6	2.5	2.2	2.5	.3							8.3	8.6
SSW	.3	1.1	1.3	3.5	.8							7.0	11.3
SW	.5	1.0	1.7	1.0	.3	.2						4.6	9.4
WSW	1.3	1.3	.8	.3								3.7	5.7
W	1.3	5.2	1.3	.3								8.1	5.5
WNW		3.0	1.3	.2								4.4	6.1
NW		2.4	.5	.2	.2							3.2	6.6
NNW	.3	.6	.2									1.1	5.0
VARBL													
CALM												13.3	
	7.5	31.3	24.3	18.1	4.4	1.0	.2					102.0	7.3

TOTAL NUMBER OF OBSERVATIONS 6311

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

NOV
MONTH

ALL WEATHER
CLASS

1980-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.2	.3	.2								3.8	4.7
NNE	.8	1.9	.5									3.2	4.9
NE	.7	.3	.2									.6	5.0
ENE	.2	.5	.2									.8	5.7
E		1.4	.6	1.8	2.6	1.6	.2					8.1	15.6
ESE	.2	1.4	5.4	4.8	2.1	.2						14.9	11.5
SE	.3	2.2	5.6	4.5	.2							12.8	9.3
SSE		.3	1.3	.2								1.8	8.8
S	.3	2.2	3.2	2.4								8.1	8.3
SSW		1.6	2.1	4.5	1.1	.3						9.6	12.0
SW		1.4	1.9	1.6	.2							5.1	9.3
WSW	.2	2.4	.8	.2								3.5	5.9
W	.6	4.2	1.1	.3								6.1	5.7
WNW	.6	3.8	1.3	.5								6.2	5.8
NW	.3	1.9	1.3	.5								4.0	6.7
NNW	.2	1.8	.6									2.6	5.9
VARBL													
CALM												9.7	
	4.9	29.5	26.3	21.2	6.1	2.1	.2					100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 627

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229 STATION PORTLAND IAP OR 73-79 YEARS NOV MONTH
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.1	1.6	.2								4.3	6.0
NNE	.2	1.1	.2									2.4	4.9
NE		.6										.6	4.3
ENE	.2	.6	.2									1.1	5.2
E	.2	1.4	1.3	2.2	2.7	1.7	.5					10.0	15.5
ESE	.3	2.4	7.0	7.3	2.4	.6						20.0	11.2
SE	.5	1.6	4.0	3.8								9.8	9.6
SSE		.6	1.6									2.2	7.4
S	.2	1.0	2.2	4.3	.2							7.8	11.7
SSW	.2	.6	2.1	3.3		.5						6.7	11.6
SW		.2	3.0	2.7	.6	.6						7.1	12.5
WSW	.3	.3	1.0	1.0	.2							2.7	9.3
W	.3	3.2	1.7	.8								6.0	6.9
WNW	.3	3.7	2.2	.8								7.3	6.9
NW	.3	1.9	1.3	1.3								4.8	7.7
NNW	.5	1.9	1.0	.2								3.5	6.0
VARBL													
CALM												5.1	
	3.8	23.2	30.2	27.8	6.7	3.5	.5					100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 6311

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

20229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

NOV
MONTH
1500-1700
HOURS (L.S.T.)

ALL WEATHER
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.3	.5	.3								2.2	6.5
NNE	.3	1.7	.2									1.4	4.7
NE	.3	.2	.2									.6	4.5
ENE	.8	.6	.3	.2								1.9	5.2
E	.2	1.4	1.7	3.5	1.6	.8	.5					9.7	13.8
ESE	.3	1.7	7.9	7.5	2.4	1.4						21.3	11.9
SE	.3	1.6	5.7	4.3								11.9	9.5
SSE	.2	1.9	2.1	.3								4.4	7.1
S	.3	1.3	2.2	3.2	.5							7.5	10.2
SSW		1.1	2.4	1.3	.2	.2						5.1	10.2
SW	.2	1.4	1.9	1.6	.3	.5	.2					6.0	11.1
WSW	.3	1.6	1.6	.2								3.7	6.6
W	.3	3.7	1.1	1.7								6.0	6.3
WNW	.5	2.1	1.7	.8								4.3	7.1
NW	.5	1.6	1.3	.5								3.8	6.6
NNW	.2	1.3	1.3	.5								3.2	7.1
VARBL													
CALM												7.0	
	4.8	23.7	31.3	24.9	4.9	2.9	.6					170.7	9.0

TOTAL NUMBER OF OBSERVATIONS 630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

NOV
MONTH

ALL WEATHER
CLASS

1830-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.8	.3									1.7	4.9
NNE	.3	.5										.8	4.4
NE	.3		.3									.6	5.8
ENE	.5	.3	.5	.2								1.4	6.8
E	.8	1.1	2.7	1.1	.8	1.1	.5					8.1	12.7
ESE	.3	4.0	9.7	17.6	2.8	.3						27.3	10.8
SE	.2	3.3	6.8	3.3	.3							14.0	8.7
SSE		1.3	3.7									4.3	7.2
S	.2	2.1	2.5	1.3	.2	.2						6.3	8.6
SSW	.2	.6	1.7	2.2	.8							5.6	10.9
SW	.5	1.0	1.6	1.4	.2	.6						5.2	10.8
WSW	.2	1.1	1.0	.2								2.4	6.4
W	.8	3.7	.6									5.1	5.1
WNW	.2	1.6	.6	.2								2.5	6.0
NW		1.1	.6									1.7	6.2
NNW		1.4	.8									2.2	6.0
VARBL													
CALM												10.6	
	4.9	23.8	32.9	20.5	4.6	2.2	.5					100.0	8.3

TOTAL NUMBER OF OBSERVATIONS

673

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

NOV
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.6	.3									1.3	4.8
NNE	.8	.8										1.6	4.1
NE	.3	.3		.2								.8	5.4
ENE	.5	1.1	.2	.2								1.9	5.1
E	.6	1.7	1.6	1.4	1.4	.6	.6					8.1	12.4
ESE	.6	4.3	9.8	8.6	1.1	.6						25.1	10.1
SE	.2	3.3	6.2	3.2								12.9	8.8
SSE	.3	.6	1.1	.3		.2						2.5	8.7
S	.8	1.6	3.7	1.1	.6							7.1	8.8
SSW	.5	.8	2.2	3.2	1.0	.3						7.9	11.6
SW		1.0	.8	2.5	.5							4.8	11.0
WSW	.6	.8	.8	.3								2.5	6.4
W	.5	3.3	.5	.2								4.0	5.0
WNW	.6	1.4	.5									2.5	5.1
NW	.5	1.6	.6									2.7	5.4
NNW	.2	1.1	.2									1.4	5.0
VARBL													
CALM												12.4	
	7.3	24.4	27.8	21.1	4.6	1.7	.6					100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

NOV
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.5	.6	.1								2.7	5.4
NNE	.3	1.2	.2									3.7	4.8
NE	.2	.4	.1	.1								.9	5.2
ENE	.3	.7	.2	.1								1.3	5.3
E	.4	1.3	1.4	1.8	1.6	1.0	.3					7.6	14.7
ESE	.5	2.9	7.8	6.5	1.6	.5	.0					19.8	10.6
SE	.4	3.1	5.4	3.8	.1							12.8	8.9
SSE	.3	1.3	1.6	.3		.0						3.5	7.1
S	.4	2.7	2.4	2.3	.4	.0						7.5	9.1
SSW	.3	1.1	1.9	2.8	.7	.2						6.9	11.1
SW	.2	1.1	1.8	1.9	.3	.2	.1					5.6	10.6
WSW	.7	1.4	1.0	.4	.1							3.6	6.4
W	.9	3.9	.9	.4	.1							6.0	5.6
WNW	.4	2.6	1.0	.3								4.3	5.0
NW	.2	1.8	.9	.3	.0							3.2	6.5
NNW	.2	1.2	.6	.1	.0							2.0	6.3
VARBL													
CALM												10.4	
	6.2	27.4	27.7	21.1	4.8	1.9	.4					100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

5135

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229 PORTLAND IAP OR 73-79 DEC
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.6	.5									1.5	5.1
NNE	.5	.9	.3									1.7	4.7
NE		.8										.8	4.2
ENE	.5	.5										.9	4.1
E	.5	1.2	1.1	.6	.2	.3						3.8	8.5
ESE	.9	5.4	7.5	7.1	2.2	.3						23.3	10.1
SE	.8	3.1	4.8	4.6	.3							13.5	9.1
SSE	.3	2.1	.6	.6								3.5	6.6
S	.9	2.3	2.8	1.4	.5							7.8	8.3
SSW		1.5	.9	3.7	1.4	.2						7.7	12.7
SW	.8	1.1	1.1	1.5	.9	.6						6.2	11.4
WSW	.3	.6	2.2	.3								3.4	7.8
W	.3	2.3	1.1	.5								4.1	6.4
WNW	.3	1.5	.3	.3								2.5	6.1
NW	.5	.9	.3									1.7	4.8
NNW		.9	.2	.3								1.4	7.6
VARBL													
CALM												16.3	
	6.9	25.7	23.5	20.9	5.4	1.4						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

DEC
MONTH

ALL WEATHER
CLASS

3300-0500
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.8		.5								1.8	6.2
NNE	.2	.2	.5	.3								1.1	8.3
NE		.5	.2									.6	5.0
ENE	.2	.3										.5	4.3
E	.9	2.7	1.2	1.1	.5	.5						6.1	9.2
ESE	.9	6.8	7.2	6.3	.5	1.1						22.7	9.6
SE	.5	4.7	5.2	3.1	.2							12.9	8.4
SSE	.3	3.4	.6	.5								4.8	5.7
S	.9	1.7	3.5	2.7	.3							8.4	8.6
SSW	.3	1.1	1.2	2.8	.8	.2						6.3	11.8
SW	.2	1.7	1.4	1.2	.8	.5						5.7	11.1
WSW	.5	1.2	.5	.2								2.3	5.5
W	.6	2.3	.9	.5								4.3	6.3
WNW	.3	1.8	.8									2.9	5.4
NW	.2	1.2	.2	.2								1.7	5.4
NNW		1.2	.8	.2	.2							2.3	7.1
VARBL													
CALM												15.5	
	6.5	31.1	24.1	18.6	3.1	2.2						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229 STATION PORTLAND IAP OR 73-79 YEARS DEC NORTH
ALL WEATHER CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.8	.2									2.8	4.6
NNE	.2	1.1										1.2	4.9
NE	.2	.6	.2									.9	5.0
ENE		1.1	.2									1.2	5.3
E		1.7	.8	.8	.3	.5						4.0	10.7
ESE	.6	5.8	7.5	6.5	.8	1.5						22.8	10.1
SE	.3	4.7	5.2	5.1	.3							14.9	9.2
SSE	.2	2.3	1.7	.5								4.6	6.7
S	.6	2.8	2.5	2.2	.3	.2						8.5	8.6
SSW	.2	1.2	1.5	1.7	1.2	.2	.2					6.2	11.9
SW	.2	1.4	.6	2.2	.8	.2						5.2	11.1
WSW	.6	1.1	1.1	.5								3.2	6.7
W	1.1	2.3	.8									4.2	4.9
WNW		2.0	.2	.2	.2							3.2	6.1
NW		.9	.3	.5								1.7	7.4
NNW	.2	1.4	.5	.2								2.2	5.9
VARBL													
CALM												13.2	
	4.9	32.3	23.1	22.0	3.8	2.5	.2					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 650

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229 STATION PORTLAND IAP OR STATION NAME 73-79 YEARS DEC MONTH 1900-1971 HOURS (L.S.T.)

ALL WEATHER CLASS

CLYDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.8	.5									2.9	4.8
NNE	.6	1.4	.2									2.2	4.4
NE	.8	.8										1.5	3.8
ENE	.3	.5										.8	4.0
E	.6	2.3	1.7	.6	.5	.9						6.6	9.7
ESE	.5	3.3	6.5	5.8	2.3	.9						19.8	11.0
SE	.2	2.6	3.8	6.0								12.6	10.0
SSE	.6	1.4	1.7	.5								4.1	7.2
S	.6	2.5	2.8	1.5	.5	.2						8.0	8.6
SSW	.5	.8	1.7	5.4	1.4	.6	.2					10.4	13.3
SW	.2	.8	1.4	1.7	1.4							5.4	11.9
WSW	.8	.8	.8	.8		.2						3.2	7.8
W	.8	1.4	.5	.2								2.8	5.1
WNW	.2	2.5	.6	.3								3.5	6.2
NW	.2	2.8	1.2	.3								4.5	6.4
NNW	.9	2.0	.8	.2								3.6	5.4
VARBL													
CALM												7.8	
	8.1	28.0	24.0	21.2	6.0	2.8	.2					100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229 STATION PORTLAND IAP OR 73-79 YEARS DEC MONTH
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	2.5	.8									3.4	5.5
NNE	.6	1.2	.3									2.2	4.4
NE	.2	.5										.6	4.3
ENE	.3	.6										.9	4.5
E	.8	2.7	1.4	1.1	.6	.8						6.8	10.1
ESE	.3	2.2	5.5	6.6	1.8	.8						17.2	11.6
SE	.2	2.7	5.7	5.5								13.4	9.9
SSE	.3	1.1	1.2	.5	.2							3.2	8.0
S	.2	1.8	2.9	2.9	.6	.3						8.8	10.4
SSW	.7	.3	2.6	4.0	1.4	.3	.2					8.9	13.2
SW	.3	1.4	2.2	2.2	.6	.3						6.9	10.4
WSW	.5	1.8	.9	1.2	.2	.2						4.8	8.4
W	.6	2.7	1.7	.6								4.9	7.0
WNW	.8	2.6	1.5	.2								5.1	5.7
NW	.2	2.3	.8	.5								3.7	6.5
NNW	.5	2.7	.8	.6	.7							4.0	7.1
VARBL													
CALM												5.4	
	5.8	26.4	28.3	25.8	5.5	2.6	.2					170.0	9.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 24229 STATION NAME PORTLAND IAP OR YEARS 73-79 MONTH DEC
CLASS ALL WEATHER
HOURS (L.S.T.) 1500-1700
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.5	.9									2.6	6.0
NNE	.2	1.1	.5									1.7	5.3
NE	.3	.6										.9	4.0
ENE	.2	.5										.8	4.8
E	.3	2.6	.8	.8	.5	.5						5.4	9.5
ESE	.3	3.1	6.3	8.6	2.0	.8	.2					21.3	11.4
SE	.2	1.7	5.9	5.1	.5							13.3	10.2
SSE		1.1	1.1	.5								2.6	7.7
S	1.1	1.4	4.2	2.5	.2	.2						9.4	8.0
SSW	.2	.3	2.9	2.3	.9	.2						6.8	11.8
SW	.3	1.5	2.6	1.7	1.2	.2						7.6	10.7
WSW	.6	.9	1.1	.5	.2							3.2	7.6
W	.5	1.5	1.2	.3	.3							3.9	7.6
WNW	.6	2.8	2.0	.8								6.2	7.0
NW		1.5	1.2	.8	.2							3.7	8.4
NNW		1.1	.8	.2	.2							2.2	7.4
VARBL													
CALM												8.6	
	9.5	23.4	31.4	23.9	6.0	1.7	.2					100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 649

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

DEC
MONTH

ALL WEATHER
CLASS

1800-2000
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.5	.5	.2								1.7	5.9
NNE	.5	1.2										1.7	4.1
NE	.2	1.1	.3									1.5	5.3
ENE	.5	.8										1.2	4.1
E	.6	3.2	.9	1.2	.2	.3						6.5	8.0
ESE	.6	5.2	7.6	8.2	2.5	1.1						25.2	10.8
SE		.9	6.7	5.7	.9	.2						13.7	11.0
SSE	.6	1.7	.9	.2	.3							3.7	7.0
S	.3	1.2	2.3	1.5	.6							6.0	9.7
SSW	.3	1.2	2.7	3.4	1.2	.5						8.6	12.4
SW	.3	1.1	1.2	1.4	.6	.2						4.8	10.5
WSW	.3	.6	.6	.5								2.4	7.9
W	.3	1.7	.8	.6								3.4	6.8
WNW	.5	1.5	.8	.3								3.1	6.3
NW	.3	.9	.8	.5	.2							2.6	7.6
NNW	.5	1.2	.2									1.9	4.7
VARBL													
CALM												12.3	
	6.3	24.2	24.8	23.6	6.5	2.2						100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 648

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

DEC
MONTH

ALL WEATHER
CLASS

2100-2300
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.2	.3									1.5	5.2
NNE	.2	.3										.5	4.3
NE	.2	.2										.3	3.5
ENE	.3	.6	.5									1.4	5.3
E	1.9	2.9	1.5	1.2	.3	.3						8.2	7.4
ESE	.2	3.5	8.0	7.3	2.0	1.7	.2					22.8	11.6
SE	.3	3.9	6.0	5.4	.2							15.7	9.0
SSE	.3	1.1	1.7	.2								3.2	6.9
S	.8	2.6	2.2	1.7	.5							7.7	8.8
SSW	.3	.6	2.1	3.9	1.2	.5						8.6	13.1
SW	.3	.9	1.1	1.5	.8	.2						4.8	11.1
WSW	.3	1.2	.6	.8								2.9	7.4
W	.2	1.5	1.9	.2								3.7	6.9
WNW	.3	1.5	.5	.2								2.5	5.5
NW	.2	1.7	.5	.3								2.6	6.0
NNW	.2	.5	.2	.3								1.1	7.3
VARBL													
CALM												12.3	
	5.7	24.4	26.9	22.8	4.9	2.8	.2					100.0	8.3

TOTAL NUMBER OF OBSERVATIONS

648

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

DEC
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.3	.4	.1								2.3	5.4
NNE	.3	.9	.2	.0								1.5	4.9
NE	.2	.6	.1									.9	4.5
ENE	.3	.6	.1									1.0	4.6
E	.7	2.3	1.2	.9	.4	.5						5.9	9.0
ESE	.5	4.5	7.0	7.0	1.8	1.0	.7					21.9	10.7
SE	.3	2.8	5.3	5.1	.3	.0						13.8	9.6
SSE	.3	1.8	1.2	.4	.1							3.7	6.9
S	.7	2.0	2.9	2.0	.4	.1						8.1	9.0
SSW	.2	.9	1.9	3.4	1.2	.3	.1					7.9	12.6
SW	.3	1.2	1.4	1.7	.9	.3						5.8	11.0
WSW	.5	1.0	1.0	.6	.7	.0						3.1	7.5
W	.5	1.9	1.1	.3	.0							3.9	6.4
WNW	.4	2.1	.8	.3	.0							3.6	6.1
NW	.2	1.5	.7	.4	.0							2.8	6.7
NNW	.3	1.3	.5	.2	.1							2.3	6.5
VARBL													
CALM												11.4	
	6.1	26.8	25.8	22.4	5.2	2.3	.1					100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 5199

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

24227
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

ALL
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	3.7	2.6	1.0	.1	.0						8.3	6.9
NNE	.4	1.3	.3	.0								2.0	4.9
NE	.3	1.3	.1	.0	.1							1.4	4.6
ENE	.4	1.1	.2	.1	.1	.1	.0					1.9	5.8
E	.5	2.7	1.1	1.0	.5	.4	.1	.0				5.7	9.8
ESE	.5	3.0	4.3	2.9	.7	.3	.0					11.7	9.5
SE	.4	2.0	2.7	2.0	.1	.0						7.2	8.6
SSE	.2	1.1	.9	.2	.0	.0						2.4	6.8
S	.5	1.9	2.4	1.5	.2	.1	.1					6.5	8.6
SSW	.3	1.1	1.7	2.1	.5	.1	.0	.0				5.7	10.7
SW	.2	1.0	1.3	1.3	.3	.1	.0					4.2	9.7
WSW	.4	1.2	.9	.5	.1	.0	.1					3.3	7.1
W	.7	2.9	1.8	.4	.1							5.8	6.4
WNW	.5	3.3	2.7	.6	.1	.0						7.1	6.8
NW	.1	3.3	3.4	.9	.1	.0						8.1	7.3
NNW	.4	3.2	3.7	1.6	.9	.0						9.1	7.9
VARBL													
CALM												10.2	
	6.9	32.8	30.1	16.3	2.7	.9	.1	.0				100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 61377

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

ALL
MONTH

INSTRUMENT

CLASS

CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE,

CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

ALL
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.8	4.1	1.6	.1								6.7	5.6
NNE	.5	1.9	.2									2.5	4.6
NE	.6	1.2	.1									1.9	4.2
ENE	.4	1.3	.0	.0								1.7	4.4
E	.6	2.4	1.7	.1	.1	.1						4.2	6.0
ESE	.7	4.1	5.8	3.7	.2	.1						13.9	8.3
SE	.4	3.6	4.7	3.1	.1							11.9	8.4
SSE	.3	1.6	1.1	.1		.1						3.1	6.2
S	.8	2.4	2.1	1.4	.3							6.8	7.9
SSW	.4	1.3	1.7	2.7	.9	.1						7.1	11.1
SW	.2	1.1	.8	1.2	.7	.2	.1					4.2	11.5
WSW	.5	1.1	.5	.2	.1	.1						2.4	6.2
W	.8	2.9	.5	.2	.1							4.3	5.2
WNW	.5	2.9	1.1	.1								4.5	5.6
NW	.4	2.8	1.6	.3	.1							5.2	6.3
NNW	.5	3.3	1.7	.3	.1							5.8	6.1
VARBL													
CALM												13.7	
	9.6	37.7	24.2	12.9	2.4	.6	.1					101.0	6.4

TOTAL NUMBER OF OBSERVATIONS

5016

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1948. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	≥ 0
NO CEILING																
≥ 1800																
≥ 1500					91.0											92.6
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500										97.4						98.1
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0 .
For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0 . From the table:
Visibility ≥ 3 miles = 95.4%.
Visibility ≥ 2 miles = 96.9%.
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

ADDITIONAL EXAMPLES

EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of ≥ 1500 feet with ≥ 3 miles, subtracted from 97.4 read from the table at the intersection of ≥ 500 feet with ≥ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling ≥ 500 feet with visibility > 1 mile, but < 3 miles; or ceiling ≥ 500 feet, but < 1500 feet with visibility ≥ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

U.S. AIR FORCE
CLIMATE BRANCH
U.S. AIR FORCE
WEATHER SERVICE/AFAC

CEILING VERSUS VISIBILITY

STATION
PORTLAND IAP OR

73-79

YEARS

MONTH
JAN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

100-0200
HOURS 11.5

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5-16	≥¼	≥0
NO CEILING	26.7	26.8	27.1	27.3	27.4	27.4	27.4	27.4	27.4	27.6	27.6	27.6	27.6	27.6	28.1	28.2
≥20000	27.4	28.1	28.2	28.5	28.7	28.7	28.7	28.7	28.7	29.7	29.8	29.8	29.8	29.8	29.3	29.7
≥18000	27.6	28.2	28.4	28.7	28.8	28.8	28.8	28.8	28.8	29.8	29.9	29.9	29.9	29.9	29.4	29.9
≥16000	27.9	28.5	28.7	29.1	29.1	29.1	29.1	29.1	29.1	29.3	29.3	29.3	29.3	29.3	29.7	30.2
≥14000	28.1	28.6	28.9	29.2	29.4	29.4	29.4	29.4	29.4	29.6	29.6	29.6	29.6	29.6	30.1	30.4
≥12000	28.4	28.9	29.2	29.5	29.7	29.7	29.7	29.7	29.7	29.9	29.9	29.9	29.9	29.9	30.4	30.8
≥10000	28.7	29.2	29.5	29.8	30.0	30.0	30.0	30.0	30.0	30.2	30.2	30.2	30.2	30.2	30.7	31.0
≥9000	29.0	29.5	29.8	30.1	30.3	30.3	30.3	30.3	30.3	30.5	30.5	30.5	30.5	30.5	31.0	31.3
≥8000	29.3	29.8	30.1	30.4	30.6	30.6	30.6	30.6	30.6	30.8	30.8	30.8	30.8	30.8	31.3	31.6
≥7000	29.6	30.1	30.4	30.7	30.9	30.9	30.9	30.9	30.9	31.1	31.1	31.1	31.1	31.1	31.6	31.9
≥6000	29.9	30.4	30.7	31.0	31.2	31.2	31.2	31.2	31.2	31.4	31.4	31.4	31.4	31.4	31.9	32.2
≥5000	30.2	30.7	31.0	31.3	31.5	31.5	31.5	31.5	31.5	31.7	31.7	31.7	31.7	31.7	32.2	32.5
≥4500	30.5	31.0	31.3	31.6	31.8	31.8	31.8	31.8	31.8	32.0	32.0	32.0	32.0	32.0	32.5	32.8
≥4000	30.8	31.3	31.6	31.9	32.1	32.1	32.1	32.1	32.1	32.3	32.3	32.3	32.3	32.3	32.8	33.1
≥3500	31.1	31.6	31.9	32.2	32.4	32.4	32.4	32.4	32.4	32.6	32.6	32.6	32.6	32.6	33.1	33.4
≥3000	31.4	31.9	32.2	32.5	32.7	32.7	32.7	32.7	32.7	32.9	32.9	32.9	32.9	32.9	33.4	33.7
≥2500	31.7	32.2	32.5	32.8	33.0	33.0	33.0	33.0	33.0	33.2	33.2	33.2	33.2	33.2	33.7	34.0
≥2000	32.0	32.5	32.8	33.1	33.3	33.3	33.3	33.3	33.3	33.5	33.5	33.5	33.5	33.5	34.0	34.3
≥1800	32.3	32.8	33.1	33.4	33.6	33.6	33.6	33.6	33.6	33.8	33.8	33.8	33.8	33.8	34.3	34.6
≥1500	32.6	33.1	33.4	33.7	33.9	33.9	33.9	33.9	33.9	34.1	34.1	34.1	34.1	34.1	34.6	34.9
≥1200	32.9	33.4	33.7	34.0	34.2	34.2	34.2	34.2	34.2	34.4	34.4	34.4	34.4	34.4	34.9	35.2
≥1000	33.2	33.7	34.0	34.3	34.5	34.5	34.5	34.5	34.5	34.7	34.7	34.7	34.7	34.7	35.2	35.5
≥900	33.5	34.0	34.3	34.6	34.8	34.8	34.8	34.8	34.8	35.0	35.0	35.0	35.0	35.0	35.5	35.8
≥800	33.8	34.3	34.6	34.9	35.1	35.1	35.1	35.1	35.1	35.3	35.3	35.3	35.3	35.3	35.8	36.1
≥700	34.1	34.6	34.9	35.2	35.4	35.4	35.4	35.4	35.4	35.6	35.6	35.6	35.6	35.6	36.1	36.4
≥600	34.4	34.9	35.2	35.5	35.7	35.7	35.7	35.7	35.7	35.9	35.9	35.9	35.9	35.9	36.4	36.7
≥500	34.7	35.2	35.5	35.8	36.0	36.0	36.0	36.0	36.0	36.2	36.2	36.2	36.2	36.2	36.7	37.0
≥400	35.0	35.5	35.8	36.1	36.3	36.3	36.3	36.3	36.3	36.5	36.5	36.5	36.5	36.5	37.0	37.3
≥300	35.3	35.8	36.1	36.4	36.6	36.6	36.6	36.6	36.6	36.8	36.8	36.8	36.8	36.8	37.3	37.6
≥200	35.6	36.1	36.4	36.7	36.9	36.9	36.9	36.9	36.9	37.1	37.1	37.1	37.1	37.1	37.6	37.9
≥100	35.9	36.4	36.7	37.0	37.2	37.2	37.2	37.2	37.2	37.4	37.4	37.4	37.4	37.4	37.9	38.2
≥0	36.2	36.7	37.0	37.3	37.5	37.5	37.5	37.5	37.5	37.7	37.7	37.7	37.7	37.7	38.2	38.5

TOTAL NUMBER OF OBSERVATIONS 649

GLOBAL CLIMATOLOGY BRANCH
UNAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION NAME PORTLAND IAP OR

73-79

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

300-5500
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING ≥ 20000	24.3	24.9	24.9	25.1	25.5	25.5	25.7	25.8	25.9	26.0	26.0	26.6	26.6	27.0	27.0	27.0
≥ 18000	24.3	26.1	26.3	26.3	26.7	26.7	26.9	27.0	27.0	27.2	28.0	28.0	28.0	28.6	28.7	28.7
IV 16000	24.3	26.2	26.3	26.3	26.7	26.7	26.9	27.0	27.0	27.2	28.0	28.0	28.0	28.6	28.7	28.7
IV 14000	24.3	27.0	27.2	27.3	27.8	27.8	28.0	28.1	28.1	28.3	29.0	29.0	29.0	29.6	29.8	29.8
IV 12000	24.3	28.9	29.0	29.2	29.6	29.6	29.8	30.0	30.0	30.1	30.9	30.9	30.9	31.5	31.6	31.6
IV 10000	28.4	30.4	30.4	30.9	31.3	31.3	31.5	31.6	31.6	31.8	32.6	32.6	32.6	33.2	33.3	33.3
IV 9000	31.1	32.9	33.0	33.3	33.8	33.8	33.9	34.1	34.1	34.3	35.0	35.0	35.0	35.6	35.8	35.8
IV 8000	31.1	34.3	34.4	34.7	35.2	35.2	35.3	35.5	35.5	35.6	36.4	36.4	36.4	37.0	37.2	37.2
IV 7000	31.1	37.9	38.1	38.4	39.9	39.9	39.9	39.9	39.9	39.9	40.9	40.9	40.9	41.7	41.9	41.9
IV 6000	33.9	41.5	41.5	41.9	42.4	42.4	42.5	42.7	42.7	42.9	43.6	43.6	43.6	44.2	44.4	44.4
IV 5000	34.1	45.5	45.6	45.9	46.4	46.4	46.5	46.7	46.7	46.9	47.6	47.6	47.6	48.2	48.4	48.4
IV 4500	34.7	48.7	49.0	49.3	49.8	49.8	49.9	50.1	50.1	50.1	50.2	51.0	51.0	51.6	51.8	51.8
IV 4000	35.3	53.6	54.1	54.4	54.8	54.8	55.0	55.1	55.1	55.3	56.1	56.1	56.1	56.7	56.8	56.8
IV 3500	35.7	55.8	56.2	56.5	57.0	57.0	57.1	57.3	57.3	57.5	58.2	58.2	58.2	58.8	59.0	59.0
IV 3000	35.9	61.9	62.5	62.8	63.6	63.6	63.7	63.9	63.9	64.1	64.8	64.8	64.8	65.7	65.9	65.9
IV 2500	36.7	64.7	65.4	65.9	66.7	66.7	66.8	67.0	67.0	67.1	67.9	67.9	67.9	68.8	69.0	69.0
IV 2000	36.7	67.6	68.8	69.0	70.7	70.7	70.8	71.0	71.0	71.1	71.3	72.0	72.0	73.0	73.1	73.1
IV 1800	36.7	68.8	70.7	70.7	73.4	73.4	73.6	73.7	73.7	73.9	74.7	74.7	74.7	75.6	75.7	75.7
IV 1500	36.7	72.5	74.5	77.1	77.9	77.9	78.0	78.2	78.2	78.3	79.1	79.1	79.1	80.2	80.2	80.2
IV 1200	37.5	75.1	77.1	81.0	81.0	81.0	81.1	81.3	81.3	81.4	82.2	82.2	82.2	83.1	83.3	83.3
IV 1000	37.5	77.4	79.7	80.6	83.6	83.6	83.7	83.9	83.9	84.1	84.8	84.8	84.8	85.7	85.9	85.9
IV 900	37.6	78.3	80.6	83.6	84.5	84.5	84.6	84.8	84.8	84.9	85.7	85.7	85.7	86.6	86.8	86.8
IV 800	37.6	78.6	81.1	84.0	84.9	84.9	85.1	85.3	85.3	85.4	86.2	86.2	86.2	87.1	87.3	87.3
IV 700	37.9	79.0	82.3	85.4	86.3	86.3	86.6	86.8	86.8	86.9	87.7	87.7	87.7	88.6	88.8	88.8
IV 600	37.9	80.6	83.6	87.4	88.3	88.3	88.6	88.8	88.8	88.9	89.7	89.7	89.7	90.6	90.8	90.8
IV 500	37.9	81.6	83.6	88.0	88.9	88.9	89.4	89.6	89.6	89.7	90.5	90.5	90.5	91.4	91.6	91.6
IV 400	37.9	81.6	83.9	88.3	89.2	89.2	89.7	90.0	90.0	90.1	91.2	91.2	91.2	92.2	92.3	92.3
IV 300	37.9	81.6	84.0	88.5	89.4	89.4	89.7	90.0	90.0	90.1	91.2	91.2	91.2	92.2	92.3	92.3
IV 200	37.9	81.6	84.0	88.5	89.4	89.4	89.7	90.0	90.0	90.1	91.2	91.2	91.2	92.2	92.3	92.3
IV 100	37.9	81.6	84.0	88.5	89.4	89.4	89.7	90.0	90.0	90.1	91.2	91.2	91.2	92.2	92.3	92.3
IV 0	37.9	81.6	84.0	88.5	89.4	89.4	89.7	90.0	90.0	90.1	91.2	91.2	91.2	92.2	92.3	92.3

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND TAP OR STATION NAME 7-79 YEARS 1979 MONTH JAN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

6-11-79
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	22.1	22.9	22.9	22.9	22.9	22.9	22.9	23.1	23.3	23.3	23.5	23.5	23.7	23.7	24.4	24.9
≥ 20000	23.2	24.1	24.1	24.1	24.1	24.1	24.1	24.3	24.4	24.6	24.7	24.7	25.0	25.2	26.0	26.4
≥ 18000	24.3	24.9	24.9	24.9	24.9	24.9	24.9	25.1	25.2	25.3	25.5	25.5	25.8	26.0	26.7	27.2
IV 16000	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.3	25.2	25.3	25.5	25.5	25.8	26.0	26.7	27.2
≥ 14000	25.4	26.7	26.7	26.7	26.7	26.7	26.7	26.9	27.0	27.2	27.3	27.3	27.6	27.8	28.6	29.1
IV 12000	26.9	27.8	27.8	27.8	27.8	27.8	27.8	28.0	28.1	28.3	28.4	28.4	28.7	28.9	29.6	30.1
≥ 10000	27.2	28.1	28.1	28.1	28.1	28.1	28.1	28.3	28.4	28.6	28.7	28.7	29.0	29.2	30.0	30.4
IV 9000	27.5	28.5	28.5	28.5	28.5	28.5	28.5	28.7	28.8	29.0	29.1	29.1	29.4	29.6	30.4	30.8
≥ 8000	28.1	29.0	29.0	29.0	29.0	29.0	29.0	29.2	29.3	29.5	29.6	29.6	29.9	30.1	30.9	31.3
IV 7000	28.1	29.2	29.2	29.2	29.2	29.2	29.2	29.4	29.5	29.7	29.8	29.8	30.1	30.3	31.1	31.5
≥ 6000	28.6	29.5	29.5	29.5	29.5	29.5	29.5	29.7	29.8	30.0	30.1	30.1	30.4	30.6	31.4	31.8
IV 5000	28.6	29.7	29.7	29.7	29.7	29.7	29.7	29.9	30.0	30.2	30.3	30.3	30.6	30.8	31.6	32.0
≥ 4500	29.1	30.0	30.0	30.0	30.0	30.0	30.0	30.2	30.3	30.5	30.6	30.6	30.9	31.1	31.9	32.3
IV 4000	29.1	30.1	30.1	30.1	30.1	30.1	30.1	30.3	30.4	30.6	30.7	30.7	31.0	31.2	32.0	32.4
≥ 3500	29.6	30.5	30.5	30.5	30.5	30.5	30.5	30.7	30.8	31.0	31.1	31.1	31.4	31.6	32.4	32.8
IV 3000	29.6	30.6	30.6	30.6	30.6	30.6	30.6	30.8	30.9	31.1	31.2	31.2	31.5	31.7	32.5	32.9
≥ 2500	30.1	31.0	31.0	31.0	31.0	31.0	31.0	31.2	31.3	31.5	31.6	31.6	31.9	32.1	32.9	33.3
IV 2000	30.1	31.1	31.1	31.1	31.1	31.1	31.1	31.3	31.4	31.6	31.7	31.7	32.0	32.2	33.0	33.4
≥ 1800	30.6	31.5	31.5	31.5	31.5	31.5	31.5	31.7	31.8	32.0	32.1	32.1	32.4	32.6	33.4	33.8
IV 1500	30.6	31.6	31.6	31.6	31.6	31.6	31.6	31.8	31.9	32.1	32.2	32.2	32.5	32.7	33.5	33.9
≥ 1200	31.1	32.0	32.0	32.0	32.0	32.0	32.0	32.2	32.3	32.5	32.6	32.6	32.9	33.1	33.9	34.3
IV 1000	31.1	32.1	32.1	32.1	32.1	32.1	32.1	32.3	32.4	32.6	32.7	32.7	33.0	33.2	34.0	34.4
≥ 900	31.6	32.5	32.5	32.5	32.5	32.5	32.5	32.7	32.8	33.0	33.1	33.1	33.4	33.6	34.4	34.8
IV 800	31.6	32.6	32.6	32.6	32.6	32.6	32.6	32.8	32.9	33.1	33.2	33.2	33.5	33.7	34.5	34.9
≥ 700	32.1	33.0	33.0	33.0	33.0	33.0	33.0	33.2	33.3	33.5	33.6	33.6	33.9	34.1	34.9	35.3
IV 600	32.1	33.1	33.1	33.1	33.1	33.1	33.1	33.3	33.4	33.6	33.7	33.7	34.0	34.2	35.0	35.4
≥ 500	32.6	33.5	33.5	33.5	33.5	33.5	33.5	33.7	33.8	34.0	34.1	34.1	34.4	34.6	35.4	35.8
IV 400	32.6	33.6	33.6	33.6	33.6	33.6	33.6	33.8	33.9	34.1	34.2	34.2	34.5	34.7	35.5	35.9
≥ 300	33.1	34.0	34.0	34.0	34.0	34.0	34.0	34.2	34.3	34.5	34.6	34.6	34.9	35.1	35.9	36.3
IV 200	33.1	34.1	34.1	34.1	34.1	34.1	34.1	34.3	34.4	34.6	34.7	34.7	35.0	35.2	36.0	36.4
≥ 100	33.6	34.5	34.5	34.5	34.5	34.5	34.5	34.7	34.8	35.0	35.1	35.1	35.4	35.6	36.4	36.8
IV 0	33.6	34.6	34.6	34.6	34.6	34.6	34.6	34.8	34.9	35.1	35.2	35.2	35.5	35.7	36.5	36.9

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

PORTLAND IAP OR

73-79

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

900-1100
HOURS (EST.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING ≥ 20000	22.4	23.7	23.8	23.8	24.1	24.1	24.3	24.3	24.3	24.6	24.7	24.7	24.7	24.7	24.7	24.9
IV 18000	25.0	25.2	25.3	25.5	26.0	26.0	26.1	26.1	26.1	26.4	26.7	26.7	26.9	26.9	27.0	27.2
IV 16000	24.3	25.7	25.9	26.1	26.4	26.4	26.6	26.7	26.7	27.1	27.3	27.3	27.5	27.5	27.6	27.8
IV 14000	27.2	28.6	28.7	28.9	29.3	29.3	29.5	29.6	29.6	30.1	30.4	30.4	30.6	30.6	30.7	30.9
IV 12000	28.9	30.3	30.9	30.6	31.0	31.0	31.2	31.3	31.3	31.8	32.1	32.1	32.3	32.3	32.4	32.6
IV 10000	30.3	32.0	32.1	32.3	32.7	32.7	32.9	33.0	33.0	33.5	33.8	33.8	33.9	33.9	34.1	34.3
IV 9000	30.3	33.0	33.3	33.5	33.9	33.9	34.1	34.3	34.3	34.7	35.0	35.0	35.2	35.2	35.3	35.5
IV 8000	31.7	34.6	35.0	35.2	35.6	35.6	35.8	35.9	35.9	36.4	36.7	36.7	36.9	36.9	37.0	37.2
IV 7000	35.7	37.8	38.2	38.4	39.0	39.0	39.2	39.3	39.3	39.8	40.1	40.1	40.2	40.2	40.4	40.6
IV 6000	38.5	40.4	40.9	41.0	41.6	41.6	41.8	41.9	41.9	42.4	42.7	42.7	42.9	42.9	43.0	43.2
IV 5000	44.2	46.2	46.7	46.9	47.5	47.5	47.6	47.8	47.8	48.2	48.5	48.5	48.7	48.7	48.8	49.0
IV 4500	46.9	47.9	48.4	48.5	49.2	49.2	49.3	49.5	49.5	49.9	50.2	50.2	50.4	50.4	50.5	50.7
IV 4000	50.5	54.4	54.0	55.0	55.6	55.6	55.8	55.9	55.9	56.4	56.7	56.7	56.8	56.8	57.0	57.1
IV 3500	53.3	57.3	57.0	57.9	58.5	58.5	58.7	58.8	58.8	59.3	59.6	59.6	59.8	59.8	59.9	60.1
IV 3000	59.4	61.0	61.4	61.6	62.2	62.2	62.5	62.7	62.7	63.3	63.6	63.6	63.7	63.7	63.9	64.1
IV 2500	69.0	65.6	66.1	66.2	67.0	67.0	67.3	67.4	67.4	68.0	68.4	68.4	68.5	68.5	68.7	68.8
IV 2000	71.3	69.7	71.7	71.0	71.6	71.6	71.9	72.0	72.0	72.7	73.0	73.0	73.1	73.1	73.3	73.4
IV 1800	72.2	70.7	71.6	71.9	72.7	72.7	73.0	73.3	73.3	73.9	74.2	74.2	74.3	74.3	74.5	74.7
IV 1500	73.5	73.1	74.0	74.5	75.3	75.3	75.6	75.9	75.9	76.5	76.8	76.8	77.0	77.0	77.1	77.3
IV 1200	75.5	77.0	77.9	78.8	79.9	80.2	81.6	81.1	81.1	81.7	82.0	82.0	82.2	82.2	82.3	82.5
IV 1000	86.5	79.7	81.0	82.8	84.0	84.3	85.4	85.7	85.9	86.5	86.8	86.8	86.9	86.9	87.1	87.3
IV 900	86.5	80.3	81.7	83.7	85.1	85.4	86.5	86.8	86.9	87.6	87.9	87.9	88.0	88.0	88.2	88.3
IV 800	86.5	80.3	81.7	83.9	85.4	85.9	87.3	87.9	88.0	88.6	88.9	88.9	89.1	89.1	89.2	89.4
IV 700	86.7	80.6	82.1	84.3	85.9	86.5	88.2	88.9	89.2	89.9	90.2	90.2	90.3	90.3	90.5	90.6
IV 600	86.7	80.6	82.1	84.3	85.9	86.5	88.3	89.2	89.6	90.3	90.6	90.6	90.8	90.8	91.0	91.2
IV 500	86.7	80.6	82.1	84.5	86.0	86.9	89.1	90.3	90.6	91.4	91.7	91.7	91.9	91.9	92.0	92.3
IV 400	86.7	80.6	82.1	84.6	86.5	87.7	90.2	91.6	92.0	92.9	93.2	93.2	93.4	93.4	93.7	93.9
IV 300	86.7	80.6	82.1	84.6	86.6	87.9	90.6	92.2	92.6	94.0	94.5	94.5	94.8	94.9	95.0	95.7
IV 200	86.7	80.6	82.1	84.8	86.8	88.0	90.8	92.5	92.9	94.3	95.2	95.2	96.3	96.3	96.5	99.1
IV 100	86.7	80.6	82.1	84.8	86.8	88.0	90.8	92.5	92.9	94.3	95.2	95.2	96.6	96.6	96.8	98.1
IV 0	86.7	80.6	82.1	84.8	86.8	88.0	90.8	92.5	92.9	94.3	95.2	95.2	96.6	96.6	96.8	98.1

TOTAL NUMBER OF OBSERVATIONS 554

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
ALC WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

YEARS 73-79

MONTH JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

12 7-14 71
HOURS ILST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING	24.5	25.7	26.7	26.6	26.8	26.8	26.8	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
≥ 20000	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 18000	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 16000	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 14000	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 12000	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 10000	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 9000	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 8000	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 7000	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 6000	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 5000	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 4500	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 4000	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 3500	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 3000	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 2500	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 2000	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 1800	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 1500	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 1200	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 1000	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 900	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 800	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 700	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 600	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 500	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 400	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 300	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 200	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 100	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 0	29.1	30.5	31.7	31.5	31.7	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8

TOTAL NUMBER OF OBSERVATIONS 65

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR STATION NAME

YEARS 75-79

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5-16	≥0
NO CEILING	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥20000	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥18000	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥16000	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥14000	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥12000	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥10000	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥9000	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥8000	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥7000	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥6000	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥5000	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥4500	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥4000	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥3500	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥3000	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥2500	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥2000	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥1800	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥1500	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥1200	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥1000	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥900	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥800	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥700	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥600	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥500	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥400	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥300	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥200	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥100	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥0	27.6	23.5	23.6	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2929
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	27.7	29.7	29.7	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	30.0	30.0	30.0
≥ 20000	29.7	31.8	31.8	32.0	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.5	32.5	32.5
≥ 18000	29.8	32.0	32.0	32.2	32.3	32.3	32.3	32.6	32.6	32.6	32.6	32.6	32.6	32.8	32.8	32.8
≥ 16000	31.0	32.2	32.2	32.3	32.5	32.5	32.6	32.8	32.8	32.8	32.8	32.8	32.8	32.9	32.9	32.9
≥ 14000	31.1	33.2	33.2	33.4	33.5	33.5	33.7	33.8	33.8	33.8	33.8	33.8	33.8	34.0	34.0	34.0
≥ 12000	33.1	35.8	35.8	36.0	36.2	36.2	36.3	36.5	36.5	36.5	36.5	36.5	36.5	36.6	36.6	36.6
≥ 10000	35.7	38.5	38.5	38.6	38.8	38.8	38.9	39.1	39.1	39.1	39.1	39.1	39.1	39.2	39.2	39.2
≥ 9000	36.9	39.7	39.7	39.8	40.0	40.0	40.2	40.3	40.3	40.3	40.3	40.3	40.3	40.5	40.5	40.5
≥ 8000	38.2	41.1	41.1	41.2	41.4	41.4	41.5	41.7	41.7	41.7	41.7	41.7	41.7	41.8	41.8	41.8
≥ 7000	40.0	42.9	42.9	43.1	43.2	43.2	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.7	43.7	43.7
≥ 6000	42.5	45.5	45.5	45.7	45.8	45.8	46.0	46.2	46.2	46.2	46.2	46.2	46.2	46.3	46.3	46.3
≥ 5000	46.0	49.5	49.5	49.7	49.8	49.8	50.0	50.2	50.2	50.2	50.2	50.2	50.2	50.3	50.3	50.3
≥ 4500	48.5	52.6	52.6	52.8	52.9	52.9	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.4	53.4	53.4
≥ 4000	53.7	58.3	58.3	58.5	58.6	58.6	58.8	58.9	58.9	58.9	58.9	58.9	58.9	59.1	59.1	59.1
≥ 3500	55.8	61.1	61.1	61.2	61.4	61.4	61.5	61.7	61.7	61.7	61.7	61.7	61.7	61.8	61.8	61.8
≥ 3000	61.8	67.4	67.4	67.5	67.8	67.8	68.0	68.2	68.3	68.3	68.3	68.3	68.3	68.5	68.5	68.5
≥ 2500	63.8	71.8	72.5	72.9	73.1	73.1	73.2	73.4	73.4	73.5	73.5	73.5	73.5	73.7	73.7	73.7
≥ 2000	66.2	75.1	75.8	76.5	76.6	76.6	76.8	76.9	76.9	77.1	77.2	77.2	77.2	77.5	77.5	77.5
≥ 1800	67.5	76.9	77.7	78.3	78.5	78.5	78.6	78.8	78.8	78.9	79.1	79.1	79.1	79.4	79.4	79.4
≥ 1500	69.5	81.8	82.6	84.1	84.2	84.2	84.5	84.6	84.6	84.8	84.9	84.9	84.9	85.2	85.2	85.2
≥ 1200	71.5	83.5	86.0	87.5	88.2	88.2	88.5	88.6	88.6	88.8	88.9	88.9	88.9	89.2	89.2	89.2
≥ 1000	71.2	86.1	88.6	90.2	90.9	90.9	91.2	91.4	91.4	91.5	91.7	91.7	91.7	92.0	92.0	92.0
≥ 900	71.5	86.8	89.4	91.1	92.2	92.2	92.5	92.6	92.6	92.8	92.9	92.9	92.9	93.2	93.2	93.2
≥ 800	72.0	87.5	90.1	92.5	93.8	94.2	94.5	94.6	94.6	94.8	94.9	94.9	94.9	95.2	95.2	95.2
≥ 700	72.0	87.5	90.1	92.5	93.8	94.2	94.5	94.6	94.6	94.8	94.9	94.9	94.9	95.2	95.2	95.2
≥ 600	72.0	87.5	90.1	92.5	93.8	94.2	94.5	94.6	94.6	94.8	94.9	94.9	94.9	95.2	95.2	95.2
≥ 500	72.2	87.8	90.8	93.7	95.5	96.0	96.6	96.8	96.9	97.1	97.2	97.2	97.2	97.5	97.5	97.5
≥ 400	72.2	87.8	90.8	93.8	95.7	96.2	96.8	96.9	97.1	97.2	97.4	97.4	97.4	97.7	97.7	97.7
≥ 300	72.2	87.8	90.8	94.0	96.2	96.6	97.2	97.5	97.7	98.2	98.3	98.3	98.3	98.6	98.6	98.6
≥ 200	72.2	87.8	90.8	94.0	96.2	96.6	97.4	97.7	97.8	98.8	99.1	99.1	99.1	99.5	99.5	99.5
≥ 100	72.2	87.8	90.8	94.0	96.2	96.6	97.4	97.7	97.8	98.8	99.1	99.1	99.1	99.5	99.5	99.5
≥ 0	72.2	87.8	90.8	94.0	96.2	96.6	97.4	97.7	97.8	98.8	99.1	99.1	99.1	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 657

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

73-79

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING	29.5	30.6	30.7	30.9	31.0	31.0	31.2	31.2	31.2	31.2	31.3	31.3	31.3	31.3	31.3	31.5
≥ 20000	31.6	31.6	31.8	32.0	32.1	32.1	32.3	32.3	32.3	32.3	32.4	32.4	32.4	32.6	32.6	32.7
≥ 18000	31.7	31.6	32.0	32.1	32.3	32.3	32.4	32.4	32.4	32.4	32.6	32.6	32.6	32.7	32.7	32.9
≥ 16000	31.7	31.8	32.0	32.1	32.3	32.3	32.4	32.4	32.4	32.4	32.6	32.6	32.6	32.7	32.7	32.9
≥ 14000	32.9	33.9	34.1	34.3	34.4	34.4	34.6	34.6	34.6	34.6	34.7	34.7	34.7	34.9	34.9	35.0
≥ 12000	35.5	36.6	36.7	36.9	37.0	37.0	37.2	37.2	37.2	37.2	37.3	37.3	37.3	37.5	37.5	37.6
≥ 10000	37.9	39.1	39.2	39.3	39.5	39.5	39.6	39.6	39.6	39.6	39.8	39.8	39.8	39.9	39.9	40.1
≥ 9000	39.3	40.4	40.6	40.7	40.9	40.9	41.0	41.0	41.1	41.1	41.2	41.2	41.2	41.3	41.3	41.5
≥ 8000	40.2	41.6	41.8	41.9	42.1	42.1	42.2	42.2	42.2	42.2	42.4	42.4	42.4	42.5	42.5	42.7
≥ 7000	42.9	44.4	44.5	44.7	44.9	44.9	45.0	45.0	45.0	45.0	45.2	45.2	45.2	45.3	45.3	45.5
≥ 6000	45.3	47.1	47.2	47.3	47.5	47.5	47.6	47.6	47.6	47.6	47.8	47.8	47.8	47.9	47.9	48.1
≥ 5000	48.8	51.2	51.3	51.5	51.6	51.6	51.8	51.8	51.8	51.8	51.9	51.9	51.9	52.1	52.1	52.2
≥ 4500	51.0	53.5	53.6	53.8	53.9	53.9	54.1	54.1	54.1	54.1	54.2	54.2	54.2	54.4	54.4	54.5
≥ 4000	54.2	57.5	57.8	57.9	58.1	58.1	58.2	58.2	58.2	58.2	58.4	58.4	58.4	58.5	58.5	58.7
≥ 3500	56.9	61.4	61.9	62.1	62.2	62.2	62.4	62.4	62.4	62.4	62.5	62.5	62.5	62.7	62.7	62.8
≥ 3000	60.4	66.4	67.3	67.4	67.6	67.6	67.7	67.7	67.7	67.7	67.9	67.9	67.9	68.0	68.0	68.2
≥ 2500	62.5	71.0	72.5	72.7	73.0	73.0	73.1	73.1	73.1	73.1	73.3	73.3	73.3	73.4	73.4	73.6
≥ 2000	64.8	74.3	76.5	76.8	77.1	77.1	77.3	77.3	77.3	77.3	77.4	77.4	77.4	77.6	77.6	77.7
≥ 1800	65.3	75.3	77.7	78.0	78.3	78.3	78.5	78.5	78.5	78.5	78.6	78.6	78.6	78.8	78.8	79.0
≥ 1500	66.7	78.6	81.7	82.3	82.8	82.9	83.3	83.3	83.3	83.3	83.4	83.4	83.4	83.6	83.6	83.7
≥ 1200	67.6	81.4	85.3	86.5	87.1	87.3	87.6	87.6	87.6	87.6	87.7	87.7	87.7	87.9	87.9	88.0
≥ 1000	68.0	83.6	87.6	88.8	89.6	89.9	90.2	90.2	90.2	90.2	90.3	90.3	90.3	90.5	90.5	90.6
≥ 900	68.1	84.1	88.3	89.6	90.3	90.6	90.9	90.9	90.9	90.9	91.1	91.1	91.1	91.2	91.2	91.4
≥ 800	68.4	84.5	89.2	91.1	92.6	92.9	93.2	93.4	93.4	93.4	93.5	93.5	93.5	93.7	93.7	93.9
≥ 700	68.4	84.6	89.7	91.7	93.2	93.5	93.9	94.0	94.0	94.0	94.2	94.2	94.2	94.3	94.3	94.5
≥ 600	68.4	84.6	89.7	91.9	93.4	93.7	94.0	94.2	94.2	94.2	94.3	94.3	94.3	94.5	94.5	94.6
≥ 500	68.4	84.8	91.2	92.3	93.9	94.6	95.4	95.5	95.5	95.5	95.7	95.7	95.7	95.9	95.9	96.0
≥ 400	68.4	84.8	91.2	92.3	93.9	94.9	95.7	95.9	95.9	95.9	96.2	96.2	96.2	96.3	96.3	96.5
≥ 300	68.4	85.1	91.5	92.6	94.2	95.2	96.3	96.5	96.5	96.5	96.8	96.8	96.8	96.9	96.9	97.1
≥ 200	68.4	85.1	91.5	92.6	94.2	95.2	96.3	96.6	96.6	96.6	96.9	96.9	96.9	97.1	97.2	98.0
≥ 100	68.4	85.1	91.5	92.6	94.2	95.2	96.3	96.6	96.6	96.6	96.9	96.9	96.9	97.4	97.5	99.7
≥ 0	68.4	85.1	91.5	92.6	94.2	95.2	96.3	96.6	96.6	96.6	96.9	96.9	96.9	97.4	97.5	98.2

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

JAN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	25.2	26.5	26.7	26.9	27.1	27.1	27.1	27.2	27.2	27.3	27.4	27.4	27.5	27.5	27.7	27.8
≥ 20000	27.2	28.7	28.9	29.1	29.4	29.4	29.4	29.5	29.5	29.6	29.8	29.8	30.0	30.1	30.2	30.4
≥ 18000	27.6	29.1	29.2	29.5	29.7	29.7	29.8	29.9	29.9	30.0	30.2	30.2	30.4	30.4	30.6	30.8
≥ 16000	27.7	29.1	29.3	29.6	29.8	29.8	29.9	30.0	30.1	30.2	30.3	30.3	30.5	30.5	30.7	30.9
≥ 14000	29.2	30.7	31.1	31.2	31.5	31.5	31.5	31.6	31.7	31.8	32.0	32.0	32.1	32.2	32.4	32.5
≥ 12000	31.1	32.9	33.1	33.4	33.6	33.6	33.7	33.8	33.8	34.0	34.1	34.1	34.3	34.4	34.6	34.7
≥ 10000	33.3	35.1	35.2	35.5	35.8	35.8	35.9	36.0	36.1	36.2	36.3	36.3	36.5	36.5	36.7	36.9
≥ 9000	34.9	36.6	36.9	37.1	37.4	37.4	37.5	37.6	37.6	37.8	37.9	37.9	38.1	38.2	38.4	38.5
≥ 8000	36.1	38.0	38.3	38.6	38.9	38.9	38.9	39.0	39.1	39.2	39.4	39.4	39.5	39.6	39.8	39.9
≥ 7000	39.1	40.9	41.3	41.5	41.9	41.9	41.9	42.0	42.1	42.2	42.4	42.4	42.5	42.6	42.8	42.9
≥ 6000	41.7	43.8	44.1	44.4	44.7	44.7	44.8	44.9	44.9	45.0	45.2	45.2	45.3	45.4	45.6	45.8
≥ 5000	46.3	48.9	49.2	49.5	49.8	49.9	49.9	50.1	50.1	50.2	50.4	50.4	50.6	50.6	50.8	51.0
≥ 4500	48.1	51.1	51.4	51.7	52.1	52.1	52.2	52.3	52.3	52.4	52.6	52.6	52.8	52.9	53.0	53.2
≥ 4000	52.6	56.3	56.7	57.1	57.4	57.4	57.5	57.7	57.7	57.8	58.0	58.0	58.2	58.2	58.4	58.6
≥ 3500	55.1	59.2	59.8	60.1	60.5	60.5	60.6	60.8	60.8	60.9	61.1	61.1	61.3	61.4	61.5	61.7
≥ 3000	58.4	63.7	64.5	64.9	65.3	65.3	65.4	65.6	65.6	65.8	66.1	66.1	66.3	66.3	66.5	66.6
≥ 2500	61.1	67.7	68.8	69.2	69.7	69.8	69.9	70.1	70.1	70.3	70.5	70.5	70.7	70.8	71.0	71.1
≥ 2000	63.1	71.1	72.4	73.1	73.5	73.7	73.8	74.0	74.0	74.2	74.3	74.3	74.6	74.7	74.9	75.0
≥ 1800	64.1	72.5	74.1	74.8	75.3	75.4	75.5	75.8	75.8	76.0	76.2	76.2	76.4	76.5	76.7	76.8
≥ 1500	65.8	75.8	77.8	79.0	79.7	79.8	80.0	80.2	80.2	80.4	80.6	80.6	80.9	81.0	81.1	81.3
≥ 1200	66.9	78.9	81.4	83.1	83.9	84.1	84.3	84.6	84.6	84.8	85.1	85.1	85.3	85.4	85.5	85.7
≥ 1000	67.7	81.1	83.8	85.7	86.6	86.9	87.2	87.5	87.6	87.7	87.9	87.9	88.2	88.3	88.5	88.7
≥ 900	67.8	81.6	84.6	86.5	87.6	87.8	88.2	88.5	88.6	88.8	89.0	89.0	89.3	89.4	89.6	89.7
≥ 800	68.7	82.1	85.2	87.4	88.7	89.1	89.5	89.9	90.0	90.1	90.3	90.3	90.6	90.7	90.9	91.1
≥ 700	68.1	82.4	85.8	88.0	89.4	89.8	90.3	90.8	90.9	91.1	91.3	91.3	91.6	91.7	91.9	92.1
≥ 600	68.1	82.5	85.9	88.5	90.0	90.4	91.0	91.5	91.6	91.9	92.1	92.1	92.4	92.5	92.7	92.8
≥ 500	68.1	82.7	86.1	89.1	90.6	91.1	92.0	92.6	92.7	93.0	93.2	93.2	93.5	93.6	93.8	94.0
≥ 400	68.1	82.7	86.2	89.3	91.0	91.7	92.7	93.4	93.6	94.1	94.3	94.3	94.6	94.7	94.9	95.1
≥ 300	68.1	82.8	86.3	89.4	91.3	92.0	93.2	93.9	94.2	94.7	95.1	95.1	95.6	95.8	96.1	96.3
≥ 200	68.1	82.8	86.4	89.4	91.3	92.1	93.3	94.1	94.4	95.1	95.7	95.7	96.4	96.6	97.5	98.5
≥ 100	68.1	82.8	86.3	89.4	91.3	92.1	93.3	94.1	94.8	95.1	95.7	95.7	96.6	96.8	98.0	99.8
≥ 0	68.1	82.8	86.3	89.4	91.3	92.1	93.3	94.1	94.4	95.1	95.7	95.7	96.6	96.8	98.0	99.8

TOTAL NUMBER OF OBSERVATIONS 5208

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

PORTLAND IAP OR

73-79

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1973-1979
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING	23.2	24.2	24.2	24.9	24.1	25.1	25.3	25.3	25.3	25.6	25.3	25.8	26.4	26.4	26.4	26.4
≥ 20000	27.4	27.3	27.3	28.1	28.3	28.3	28.5	28.5	28.5	28.8	29.1	29.1	29.7	29.7	29.7	29.7
≥ 18000	27.9	28.3	28.3	29.6	28.8	28.8	29.0	29.0	29.0	29.3	29.5	29.5	30.2	30.2	30.2	30.2
≥ 16000	28.9	28.3	28.3	28.6	28.8	28.8	29.0	29.0	29.0	29.3	29.5	29.5	30.2	30.2	30.2	30.2
≥ 14000	28.3	29.2	29.2	29.8	30.0	30.0	30.2	30.2	30.2	30.5	30.7	30.7	31.4	31.4	31.4	31.4
≥ 12000	32.7	33.7	33.7	34.4	34.6	34.6	34.7	34.7	34.7	35.1	35.3	35.3	35.9	35.9	35.9	35.9
≥ 10000	35.1	36.1	36.1	36.8	36.9	36.9	37.1	37.1	37.1	37.5	37.6	37.6	38.3	38.3	38.3	38.3
≥ 9000	36.9	38.1	38.1	39.0	39.2	39.2	39.3	39.3	39.3	39.7	39.8	39.8	40.5	40.5	40.5	40.5
≥ 8000	38.6	39.8	39.8	40.7	40.8	40.8	41.1	41.0	41.0	41.4	41.5	41.5	42.2	42.2	42.2	42.2
≥ 7000	40.3	41.5	41.5	42.7	42.9	42.9	43.1	43.1	43.1	43.4	43.6	43.6	44.2	44.2	44.2	44.2
≥ 6000	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 5000	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 4500	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 4000	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 3500	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 3000	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 2500	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 2000	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 1800	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 1500	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 1200	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 1000	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 900	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 800	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 700	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 600	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 500	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 400	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 300	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 200	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 100	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7
≥ 0	45.4	46.6	46.6	48.1	48.3	48.3	48.5	48.5	48.5	48.8	49.1	49.1	49.7	49.7	49.7	49.7

TOTAL NUMBER OF OBSERVATIONS 597

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION
PORTLAND IAP OR

STATION NAME
PORTLAND IAP OR

YEARS
73-79

MONTH
FEB

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING	23.2	24.2	24.2	24.9	25.1	25.1	25.3	25.3	25.3	25.6	25.8	25.8	26.4	26.4	26.4	26.4
≥ 20000	24.4	27.5	27.5	28.1	28.3	28.3	28.5	28.5	28.5	28.8	29.0	29.0	29.7	29.7	29.7	29.7
≥ 18000	24.9	28.7	28.7	29.6	28.8	28.8	29.0	29.0	29.0	29.3	29.5	29.5	30.2	30.2	30.2	30.2
≥ 16000	26.9	28.0	28.0	28.6	28.8	28.8	29.0	29.0	29.0	29.3	29.5	29.5	30.2	30.2	30.2	30.2
≥ 14000	28.1	29.2	29.2	29.8	30.0	30.0	30.2	30.2	30.2	30.5	30.7	30.7	31.4	31.4	31.4	31.4
≥ 12000	32.7	33.7	33.7	34.4	34.6	34.6	34.7	34.7	34.7	35.1	35.3	35.3	35.9	35.9	35.9	35.9
≥ 10000	35.1	36.1	36.1	36.8	36.9	36.9	37.1	37.1	37.1	37.5	37.6	37.6	38.3	38.3	38.3	38.3
≥ 9000	36.9	38.1	38.1	39.0	39.2	39.2	39.3	39.3	39.3	39.7	39.8	39.8	40.5	40.5	40.5	40.5
IV 8000	38.6	39.8	39.8	40.7	40.8	40.8	41.0	41.0	41.0	41.4	41.5	41.5	42.2	42.2	42.2	42.2
IV 7000	40.5	41.5	41.5	42.7	42.9	42.9	43.1	43.1	43.1	43.4	43.6	43.6	44.2	44.2	44.2	44.2
IV 6000	45.4	46.6	46.6	48.0	48.3	48.3	48.5	48.5	48.5	48.8	49.0	49.0	49.7	49.7	49.7	49.7
IV 5000	51.0	53.2	53.2	54.6	54.9	54.9	55.1	55.1	55.1	55.4	55.6	55.6	56.3	56.3	56.3	56.3
IV 4500	54.4	56.6	56.6	58.1	58.3	58.3	58.5	58.5	58.5	58.8	59.0	59.0	59.7	59.7	59.7	59.7
IV 4000	58.1	63.6	63.6	65.1	65.6	65.6	65.8	65.8	65.8	66.3	66.4	66.4	67.1	67.1	67.1	67.1
IV 3500	62.7	66.4	66.4	68.0	68.5	68.5	68.6	68.6	68.6	69.2	69.3	69.3	70.0	70.0	70.0	70.0
IV 3000	66.8	72.2	72.2	73.9	74.4	74.4	74.6	74.7	74.7	75.1	75.3	75.3	75.9	75.9	75.9	75.9
IV 2500	68.6	76.1	76.1	77.8	78.5	78.5	78.6	78.8	78.8	79.2	79.3	79.3	80.0	80.0	80.0	80.0
IV 2000	70.8	81.2	81.5	82.4	83.1	83.1	83.2	83.4	83.4	83.7	83.9	83.9	84.6	84.6	84.6	84.6
IV 1800	71.7	81.9	82.4	84.2	85.1	85.1	85.3	85.4	85.4	85.8	85.9	85.9	86.6	86.6	86.6	86.6
IV 1500	72.7	83.9	84.7	86.8	87.8	87.8	88.0	88.3	88.3	88.6	88.8	88.8	89.5	89.5	89.5	89.5
IV 1200	74.1	86.3	88.0	90.2	91.2	91.2	91.4	91.7	91.7	92.0	92.2	92.2	92.9	92.9	92.9	92.9
IV 1000	74.7	88.1	89.7	91.9	93.2	93.2	93.6	93.9	93.9	94.2	94.4	94.4	95.1	95.1	95.1	95.1
IV 900	74.9	88.1	89.8	92.2	93.6	93.6	93.9	94.2	94.2	94.6	94.7	94.7	95.4	95.4	95.4	95.4
IV 800	74.9	88.1	89.8	92.4	93.7	93.7	94.1	94.4	94.4	94.7	94.9	94.9	95.6	95.6	95.6	95.6
IV 700	75.3	88.6	90.2	92.7	94.1	94.1	94.4	94.7	94.7	95.1	95.3	95.3	95.9	95.9	95.9	95.9
IV 600	75.4	88.6	90.3	93.4	94.7	94.7	95.1	95.4	95.4	95.8	96.1	96.1	96.8	96.8	96.8	96.8
IV 500	75.4	88.6	90.3	93.4	94.9	95.1	95.4	95.9	95.9	96.6	96.9	96.9	97.6	97.6	97.6	97.6
IV 400	75.4	88.6	90.3	93.4	95.1	95.6	95.9	96.4	96.4	97.1	97.5	97.5	98.1	98.1	98.1	98.1
IV 300	75.4	88.6	90.3	93.4	95.3	95.9	96.3	96.8	96.8	97.5	97.8	97.8	98.5	98.5	98.5	98.5
IV 200	75.4	88.6	90.3	93.4	95.3	95.9	96.4	96.9	96.9	97.6	98.3	98.3	99.0	99.0	99.5	99.5
IV 100	75.4	88.6	90.3	93.4	95.3	95.9	96.4	96.9	96.9	97.6	98.3	98.3	99.0	99.0	99.5	99.5
IV 0	75.4	88.6	90.3	93.4	95.3	95.9	96.4	96.9	96.9	97.6	98.3	98.3	99.0	99.0	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 590

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1600-1800
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	14.1	14.9	14.9	15.3	15.3	15.3	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
≥ 20000	16.9	17.8	17.8	18.1	18.1	18.1	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
≥ 18000	17.5	18.3	18.3	18.6	18.6	18.6	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
≥ 16000	17.5	18.3	18.3	18.6	18.6	18.6	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
≥ 14000	19.1	19.9	19.9	20.2	20.2	20.2	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
≥ 12000	21.9	23.2	23.2	23.6	23.6	23.6	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
≥ 10000	23.1	24.4	24.4	24.7	24.7	24.7	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
≥ 9000	24.7	26.3	26.3	26.4	26.4	26.4	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
≥ 8000	26.3	27.8	27.8	28.1	28.1	28.1	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
≥ 7000	28.2	32.7	32.7	33.1	33.2	33.2	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
≥ 6000	36.6	38.3	38.3	38.6	38.6	38.6	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
≥ 5000	43.6	45.4	45.4	45.8	46.1	46.1	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
≥ 4500	46.6	48.5	48.5	48.8	49.3	49.3	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥ 4000	51.5	52.7	53.1	53.9	54.4	54.4	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 3500	53.4	56.3	56.8	57.6	58.1	58.1	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥ 3000	58.1	61.7	62.2	63.1	63.6	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 2500	60.8	66.1	66.8	67.8	68.3	68.3	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 2000	63.2	69.7	70.5	71.5	72.0	72.0	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 1800	64.6	71.5	72.5	73.7	74.4	74.4	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 1500	67.3	75.1	76.1	77.5	78.1	78.1	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 1200	70.1	79.5	80.5	82.2	83.4	83.4	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 1000	70.7	81.5	82.5	84.2	85.4	85.4	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 900	71.7	81.7	82.9	84.6	86.1	86.1	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 800	71.7	82.1	83.2	84.9	86.4	86.4	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 700	71.8	82.7	83.9	85.6	87.6	87.6	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 600	70.8	82.9	84.2	86.1	88.1	88.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 500	71.1	83.1	84.4	86.4	88.6	88.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 400	71.1	83.1	84.7	86.6	88.8	88.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 300	71.0	83.2	84.9	87.1	89.5	89.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 200	71.0	83.2	84.9	87.1	89.5	89.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 100	71.1	83.2	84.9	87.1	89.5	89.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 0	71.1	83.2	84.9	87.1	89.5	89.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7

TOTAL NUMBER OF OBSERVATIONS 592

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

23 STATION PORTLAND IAP OR STATION NAME 73-79 YEARS FEB MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1973-1974
HOURS 11511

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	15.2	15.4	16.6	16.6	16.9	16.9	16.9	16.9	16.9	17.3	17.4	17.4	17.4	17.4	17.6	17.9
≥ 20000	21.5	22.2	22.3	22.3	22.7	22.7	22.7	22.7	22.7	23.0	23.2	23.2	23.4	23.4	23.5	24.1
≥ 18000	21.5	22.7	22.8	22.8	23.2	23.2	23.2	23.2	23.2	23.5	23.7	23.7	23.9	23.9	24.7	24.5
≥ 16000	21.5	22.7	22.8	22.8	23.2	23.2	23.2	23.2	23.2	23.5	23.7	23.7	23.9	23.9	24.7	24.5
≥ 14000	21.5	24.0	24.2	24.2	24.5	24.5	24.5	24.5	24.5	24.9	25.0	25.0	25.2	25.2	25.4	25.9
≥ 12000	25.7	27.4	27.4	27.4	27.7	27.7	27.9	27.9	27.9	28.4	28.6	28.6	28.8	28.8	28.9	29.4
≥ 10000	27.6	29.0	29.4	29.4	29.8	29.8	29.9	29.9	29.9	30.5	30.6	30.6	30.8	30.8	31.0	31.5
≥ 9000	29.4	31.3	31.3	31.3	31.6	31.6	31.8	31.8	31.8	32.3	32.5	32.5	32.7	32.7	32.8	33.3
≥ 8000	31.1	31.6	32.0	32.0	32.3	32.3	32.5	32.5	32.5	33.0	33.2	33.2	33.3	33.3	33.5	34.0
≥ 7000	33.0	34.5	34.9	34.9	35.2	35.2	35.4	35.4	35.4	35.9	36.0	36.0	36.2	36.2	36.4	36.9
≥ 6000	38.2	39.9	40.7	40.3	40.8	40.8	40.9	40.9	40.9	41.5	41.6	41.6	41.8	41.8	42.0	42.5
≥ 5000	43.1	45.5	45.9	45.9	46.4	46.4	46.5	46.5	46.5	47.1	47.2	47.2	47.4	47.4	47.5	48.1
≥ 4500	46.4	48.9	49.2	49.2	49.7	49.7	49.9	49.9	49.9	50.4	50.6	50.6	50.8	50.8	50.9	51.4
≥ 4000	50.3	53.3	53.6	53.6	54.1	54.1	54.3	54.3	54.3	54.8	55.0	55.0	55.2	55.2	55.3	55.8
≥ 3500	54.7	57.9	58.4	58.4	59.1	59.1	59.2	59.4	59.4	59.9	60.1	60.1	60.2	60.2	60.4	60.9
≥ 3000	60.1	63.8	64.6	65.0	65.5	65.5	65.8	66.3	66.3	66.5	66.7	66.7	66.8	66.8	67.3	67.5
≥ 2500	64.6	68.9	69.7	70.1	70.6	70.6	70.9	71.1	71.1	71.6	71.7	71.7	71.9	71.9	72.1	72.6
≥ 2000	67.2	72.1	73.4	73.9	74.5	74.5	74.8	75.0	75.0	75.5	75.6	75.6	75.8	75.8	76.0	76.5
≥ 1800	68.1	73.1	74.5	75.1	75.6	75.6	76.0	76.3	76.3	76.8	77.0	77.3	77.2	77.2	77.3	77.8
≥ 1500	70.1	77.0	78.3	79.2	79.7	79.7	80.0	80.4	80.4	80.9	81.0	81.1	81.2	81.2	81.4	81.9
≥ 1200	73.6	81.0	82.4	84.3	84.8	84.8	85.1	85.4	85.4	86.0	86.1	86.1	86.3	86.3	86.5	87.0
≥ 1000	74.5	82.4	83.9	86.0	86.5	86.5	87.1	87.6	87.6	88.2	88.5	88.5	88.7	88.7	88.8	89.3
≥ 900	74.5	83.2	84.8	86.8	87.6	87.6	88.3	88.8	88.8	89.3	89.7	89.7	89.8	89.8	90.0	90.5
≥ 800	74.5	83.6	85.3	87.3	88.2	88.2	88.8	89.3	89.3	89.8	90.2	90.2	90.4	90.4	90.5	91.0
≥ 700	74.5	83.8	85.8	87.8	88.7	88.7	89.5	90.0	90.2	90.9	91.2	91.2	91.4	91.4	91.5	92.0
≥ 600	74.5	83.8	85.8	88.1	88.8	88.8	89.8	90.5	90.7	91.4	91.7	91.7	91.9	91.9	92.2	92.7
≥ 500	74.5	83.9	86.0	88.7	89.5	89.5	90.7	91.4	91.5	92.4	92.7	92.7	92.9	92.9	93.2	93.7
≥ 400	74.5	83.9	86.0	88.7	89.5	89.5	90.9	91.5	92.0	93.1	93.4	93.4	93.6	93.6	93.9	94.4
≥ 300	74.5	83.9	86.0	88.7	89.5	89.5	90.9	91.5	92.2	94.1	95.4	95.4	95.8	95.8	96.1	96.6
≥ 200	74.5	83.9	86.0	88.7	89.5	89.5	90.9	91.7	92.4	94.6	96.3	96.3	97.3	97.3	98.0	99.0
≥ 100	74.5	83.9	86.0	88.7	89.5	89.5	90.9	91.7	92.4	94.6	96.3	96.3	97.5	97.5	98.1	99.7
≥ 0	74.5	83.9	86.0	88.7	89.5	89.5	90.9	91.7	92.4	94.6	96.3	96.3	97.5	97.5	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 591

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION
PORTLAND IAP OR

STATION NAME
PORTLAND IAP OR

YEARS
73-79

MONTH
FEB

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1210-1400
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	18.1	19.1	19.1	19.5	19.6	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
≥ 20000	23.5	24.5	24.5	24.9	25.0	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
≥ 18000	23.9	24.9	24.9	25.2	25.4	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
≥ 16000	24.4	25.4	25.4	25.7	25.9	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
≥ 14000	27.1	28.1	28.1	28.4	28.6	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
≥ 12000	31.5	32.5	32.5	32.8	33.0	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
≥ 10000	33.3	34.3	34.3	34.7	34.9	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
≥ 9000	34.3	35.4	35.4	35.7	35.9	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 8000	35.5	36.7	36.7	37.1	37.2	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
≥ 7000	37.4	38.6	38.6	38.9	39.1	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
≥ 6000	40.4	42.1	42.1	42.5	42.6	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
≥ 5000	45.2	47.5	47.5	47.9	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
≥ 4500	48.7	51.6	51.6	51.9	52.1	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 4000	54.0	58.0	58.2	58.7	58.9	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 3500	58.3	62.9	63.1	63.6	63.8	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 3000	64.6	69.5	69.7	70.2	70.4	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 2500	71.4	76.1	76.1	76.6	76.8	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 2000	74.1	80.4	81.5	81.4	81.6	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 1800	75.5	82.4	82.7	83.8	84.1	84.6	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 1500	79.4	87.6	88.2	89.5	89.8	91.4	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1200	81.5	89.1	91.1	91.4	91.7	92.2	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 1000	82.4	91.1	91.4	92.7	93.2	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 900	81.6	91.5	92.7	93.7	94.4	94.9	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 800	81.6	90.5	92.2	93.9	94.6	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 700	83.6	91.7	92.4	94.1	94.8	95.3	95.8	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9
≥ 600	83.6	91.7	92.4	94.1	94.8	95.3	95.8	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9
≥ 500	83.6	91.0	92.7	94.4	95.1	95.6	96.4	96.4	96.4	96.4	96.4	97.1	97.1	97.1	97.1	97.1
≥ 400	83.6	91.0	92.7	94.4	95.1	95.8	96.6	96.8	96.8	96.8	97.6	97.8	97.8	97.8	97.8	97.8
≥ 300	81.6	91.1	92.7	94.4	95.1	95.8	96.6	97.0	97.0	98.3	99.0	99.0	99.0	99.0	99.0	99.0
≥ 200	81.6	91.1	92.7	94.4	95.1	95.8	96.6	97.1	97.1	98.8	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100	81.6	91.1	92.7	94.4	95.1	95.8	96.6	97.1	97.1	98.8	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0	81.6	91.1	92.7	94.4	95.1	95.8	96.6	97.1	97.1	98.8	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS

591

USAF ETAC

FORM
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

21027
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING	27.2	24.2	24.9	25.1	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.4	25.4
≥ 20000	28.1	29.3	29.9	30.1	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.5	30.5
≥ 18000	28.4	29.6	30.3	30.5	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.8	30.8
≥ 16000	28.4	29.6	30.3	30.5	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.8	30.8
≥ 14000	29.9	31.3	31.8	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.3	32.3
≥ 12000	32.1	33.3	34.0	34.2	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.5	34.5
≥ 10000	34.4	37.6	38.2	38.4	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.7	38.7
≥ 9000	38.4	39.6	40.3	40.4	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.8	40.8
≥ 8000	39.8	40.9	41.6	41.8	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.1	42.1
≥ 7000	43.7	44.8	45.4	45.7	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	46.1	46.1
≥ 6000	46.1	47.2	47.9	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.4	48.4
≥ 5000	52.5	54.1	54.8	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.3	55.3
≥ 4500	54.8	56.9	57.5	57.7	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	58.0	58.0
≥ 4000	61.7	64.0	64.6	64.8	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.1	65.1
≥ 3500	66.1	70.2	70.9	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.4	71.4
≥ 3000	71.6	76.1	77.0	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.5	77.5
≥ 2500	76.8	82.6	83.6	83.9	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.3	84.3
≥ 2000	79.2	86.3	87.5	88.0	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.5	88.5
≥ 1800	79.2	87.5	88.7	89.2	89.5	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	90.0	90.0
≥ 1500	82.4	90.7	91.9	92.7	93.2	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.9	93.9
≥ 1200	83.8	92.4	94.1	94.9	95.4	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.1	96.1
≥ 1000	83.9	92.7	94.4	95.8	96.4	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.1	97.1
≥ 900	83.9	92.9	94.9	96.3	97.1	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.8	97.8
≥ 800	83.9	92.9	95.1	96.6	97.5	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.5	98.5
≥ 700	83.9	92.9	95.1	96.6	97.5	98.0	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.8	98.8
≥ 600	83.9	92.9	95.1	96.6	97.5	98.0	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	99.0	99.0
≥ 500	83.9	92.9	95.1	96.6	97.5	98.0	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	99.2	99.2
≥ 400	83.9	92.9	95.1	96.6	97.5	98.0	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	99.3	99.3
≥ 300	83.9	92.9	95.1	96.6	97.5	98.0	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	99.3	99.3
≥ 200	83.9	92.9	95.1	96.6	97.5	98.0	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	99.3	99.3
≥ 100	83.9	92.9	95.1	96.6	97.5	98.0	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	99.3	99.3
≥ 0	83.9	92.9	95.1	96.6	97.5	98.0	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 591

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

29
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	27.5	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	28.2
≥ 20000	31.6	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.7
≥ 18000	31.6	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.7
≥ 16000	31.7	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.9
≥ 14000	33.3	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.5
≥ 12000	34.5	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.7
≥ 10000	37.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.9
≥ 9000	38.9	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.6
≥ 8000	40.2	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	42.1
≥ 7000	42.6	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.7
≥ 6000	48.1	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	50.1	50.1	50.4
≥ 5000	55.3	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	58.1	58.1	58.4
≥ 4500	56.9	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.3	60.3	60.6
≥ 4000	63.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.9	67.9	68.3
≥ 3500	67.9	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.8	72.8	73.2
≥ 3000	73.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.6	80.6	81.0
≥ 2500	77.8	85.6	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.4	86.4	86.8
≥ 2000	79.3	87.4	87.9	88.3	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.6	88.6	89.0
≥ 1800	79.8	88.6	89.3	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	90.0	90.0	90.3
≥ 1500	87.5	91.5	91.9	92.2	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.7	92.7	93.0
≥ 1200	91.8	91.7	93.2	93.5	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.2	94.2	94.6
≥ 1000	91.5	92.7	94.6	95.6	95.9	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.4	96.4	96.8
≥ 900	91.5	92.7	94.6	95.6	96.1	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.8	96.8	97.1
≥ 800	91.5	92.9	94.7	95.9	96.3	96.4	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9	97.3
≥ 700	91.5	93.4	95.4	96.6	96.9	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.6	97.6	98.0
≥ 600	91.7	93.5	95.6	96.8	97.3	97.5	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.5
≥ 500	91.7	93.5	95.6	96.9	97.5	97.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.3	98.3	98.8
≥ 400	91.7	93.5	95.6	97.3	97.8	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.8	98.8	99.3
≥ 300	91.7	93.5	95.6	97.3	97.8	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.8	98.8	99.5
≥ 200	91.7	93.5	95.6	97.3	97.8	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.8	98.8	99.5
≥ 100	91.7	93.5	95.6	97.3	97.8	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.8	98.8	99.5
≥ 0	91.7	93.5	95.6	97.3	97.8	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.8	98.8	99.5

TOTAL NUMBER OF OBSERVATIONS 589

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
ATM WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2129
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥8	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING	29.4	19.9	31.2	31.3	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
≥ 20000	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
≥ 18000	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 16000	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 14000	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 12000	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 10000	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 9000	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 8000	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 7000	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 6000	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 5000	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 4500	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 4000	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 3500	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 3000	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 2500	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 2000	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 1800	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 1500	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 1200	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 1000	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 900	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 800	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 700	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 600	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 500	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 400	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 300	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 200	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 100	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
IV 0	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5

TOTAL NUMBER OF OBSERVATIONS 591

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

73-79

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	21.2	22.0	22.2	22.4	22.6	22.6	22.7	22.7	22.7	22.8	22.8	22.8	23.0	23.0	23.1	23.3
≥ 20000	24.2	25.8	26.5	26.2	26.4	26.4	26.4	26.4	26.5	26.5	26.6	26.6	26.8	26.8	26.9	27.2
≥ 18000	25.2	26.4	26.4	26.6	26.7	26.7	26.8	26.8	26.8	26.9	27.0	27.0	27.1	27.2	27.3	27.6
≥ 16000	25.3	26.3	26.5	26.7	26.8	26.8	26.9	26.9	26.9	27.0	27.1	27.1	27.2	27.2	27.4	27.6
≥ 14000	27.0	27.9	28.1	28.3	28.5	28.5	28.6	28.6	28.6	28.7	28.7	28.7	28.9	28.9	29.1	29.3
≥ 12000	30.1	31.2	31.4	31.5	31.7	31.7	31.8	31.8	31.8	31.9	32.0	32.0	32.2	32.2	32.4	32.6
≥ 10000	32.0	33.7	33.9	34.1	34.3	34.3	34.4	34.4	34.4	34.5	34.6	34.6	34.8	34.8	34.9	35.2
≥ 9000	34.4	35.5	35.8	36.0	36.1	36.1	36.2	36.2	36.3	36.4	36.5	36.5	36.6	36.6	36.8	37.0
≥ 8000	35.6	36.9	37.1	37.3	37.4	37.5	37.6	37.6	37.6	37.7	37.8	37.8	38.0	38.0	38.1	38.4
≥ 7000	38.5	39.8	40.1	40.3	40.5	40.5	40.6	40.6	40.6	40.7	40.8	40.8	41.0	41.0	41.2	41.4
≥ 6000	42.3	44.3	44.5	44.9	45.1	45.1	45.2	45.2	45.3	45.4	45.4	45.4	45.6	45.6	45.8	46.1
≥ 5000	49.3	51.0	51.3	51.7	51.9	51.9	52.1	52.1	52.1	52.2	52.3	52.3	52.5	52.5	52.6	52.9
≥ 4500	50.5	54.3	54.5	55.0	55.2	55.2	55.4	55.4	55.4	55.5	55.6	55.6	55.8	55.8	55.9	56.2
≥ 4000	57.6	58.9	61.3	61.8	62.1	62.1	62.2	62.3	62.3	62.4	62.5	62.5	62.7	62.7	62.9	63.1
≥ 3500	61.1	65.1	65.5	66.1	66.4	66.4	66.5	66.6	66.6	66.7	66.8	66.8	67.0	67.0	67.2	67.4
≥ 3000	66.1	71.0	71.5	72.2	72.5	72.5	72.7	72.7	72.7	72.8	72.9	72.9	73.1	73.1	73.3	73.6
≥ 2500	68.7	75.9	76.5	77.2	77.5	77.5	77.7	77.8	77.8	77.9	78.0	78.0	78.2	78.2	78.4	78.6
≥ 2000	72.2	79.6	80.3	81.2	81.6	81.7	81.8	81.9	81.9	82.1	82.1	82.1	82.3	82.3	82.5	82.7
≥ 1800	73.1	81.0	81.9	82.8	83.3	83.4	83.5	83.6	83.6	83.7	83.8	83.8	84.0	84.0	84.2	84.5
≥ 1500	75.1	84.1	85.2	86.4	86.9	87.0	87.2	87.3	87.3	87.4	87.5	87.5	87.7	87.7	87.9	88.2
≥ 1200	76.8	86.7	88.3	89.7	90.2	90.4	90.6	90.6	90.7	90.8	90.9	90.9	91.2	91.2	91.3	91.6
≥ 1000	77.4	88.3	89.6	91.3	91.9	92.1	92.4	92.5	92.5	92.7	92.8	92.8	93.0	93.0	93.2	93.5
≥ 900	77.5	88.4	90.2	91.9	92.7	92.8	93.2	93.3	93.3	93.5	93.6	93.6	93.8	93.8	94.0	94.3
≥ 800	77.6	88.7	90.5	92.3	93.2	93.3	93.7	93.8	93.9	94.0	94.2	94.2	94.4	94.4	94.6	94.8
≥ 700	77.6	89.0	90.9	92.7	93.6	93.9	94.3	94.5	94.6	94.8	94.9	94.9	95.2	95.2	95.4	95.6
≥ 600	77.7	89.1	91.1	93.1	93.9	94.2	94.7	94.9	95.0	95.2	95.4	95.4	95.6	95.6	95.8	96.1
≥ 500	77.7	89.2	91.2	93.2	94.3	94.5	95.2	95.4	95.5	95.9	96.1	96.1	96.4	96.4	96.6	96.8
≥ 400	77.7	89.2	91.2	93.3	94.4	94.8	95.4	95.7	95.9	96.4	96.6	96.6	96.8	96.9	97.1	97.3
≥ 300	77.7	89.2	91.3	93.4	94.5	95.0	95.6	96.0	96.1	96.8	97.3	97.3	97.6	97.6	97.8	98.1
≥ 200	77.7	89.2	91.3	93.4	94.5	95.0	95.7	96.1	96.2	97.0	97.7	97.7	98.1	98.1	98.4	99.1
≥ 100	77.7	89.2	91.3	93.4	94.5	95.0	95.7	96.1	96.2	97.0	97.7	97.7	98.1	98.2	98.8	99.8
≥ 0	77.7	89.2	91.3	93.4	94.5	95.0	95.7	96.1	96.2	97.0	97.7	97.7	98.1	98.2	98.8	99.8

TOTAL NUMBER OF OBSERVATIONS 4724

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AFW WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

21-29
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

MAP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1000-0200
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 17	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	31.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
≥ 20000	33.6	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
≥ 18000	33.8	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
≥ 16000	34.1	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
≥ 14000	34.4	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
≥ 12000	36.4	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
≥ 10000	38.7	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
≥ 9000	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
≥ 8000	41.8	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
≥ 7000	45.6	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
≥ 6000	51.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 5000	59.4	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 4500	64.1	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 4000	71.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 3500	75.3	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 3000	81.7	84.3	84.3	84.3	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 2500	83.6	87.9	88.2	88.5	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 2000	85.3	91.6	91.9	91.2	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 1800	86.5	93.1	93.7	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 1500	88.2	96.1	96.6	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1200	88.8	96.9	97.7	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1000	89.1	97.4	98.2	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 900	89.1	97.5	98.5	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 800	89.1	97.7	98.6	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	89.1	97.7	98.6	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	89.1	98.1	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	89.1	98.1	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	89.1	98.1	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	89.1	98.1	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	89.1	98.1	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	89.1	98.1	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	89.1	98.1	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2 PORTLAND IAP OR

73-79

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0300-0500
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	28.4	29.8	30.6	30.9	30.9	30.9	30.9	30.9	30.9	30.9	31.0	31.0	31.2	31.2	31.6	31.8
≥20000	29.3	31.0	31.8	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.3	32.3	32.4	32.4	32.9	33.0
≥18000	29.5	31.2	32.0	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.4	32.4	32.6	32.6	33.0	33.2
≥16000	29.8	31.5	32.3	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.7	32.7	32.9	32.9	33.3	33.5
≥14000	30.1	32.0	32.7	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.2	33.2	33.3	33.3	33.8	33.9
≥12000	31.8	33.5	34.3	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.7	34.7	34.9	34.9	35.3	35.5
≥10000	33.5	35.2	35.9	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.4	36.4	36.6	36.6	37.0	37.2
≥9000	34.7	36.4	37.2	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.6	37.6	37.8	37.8	38.2	38.4
≥8000	35.6	37.3	38.1	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.6	38.6	38.7	38.7	39.2	39.3
≥7000	38.2	39.9	40.7	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.2	41.2	41.3	41.3	41.8	41.9
≥6000	41.8	44.1	44.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.3	45.3	45.5	45.5	45.9	46.1
≥5000	51.8	54.1	55.0	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.5	55.5	55.6	55.6	56.1	56.2
≥4500	55.6	58.7	59.8	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.2	60.2	60.4	60.4	60.8	61.0
≥4000	62.7	67.3	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.1	69.1	69.3	69.3	69.7	69.9
≥3500	67.1	72.5	73.7	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.3	74.3	74.5	74.5	75.0	75.1
≥3000	72.5	79.3	81.0	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.7	81.7	81.9	81.9	82.3	82.5
≥2500	78.2	83.4	85.3	85.9	85.9	85.9	85.9	85.9	85.9	85.9	86.0	86.0	86.2	86.2	86.6	86.8
≥2000	78.2	85.6	87.7	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.5	88.5	88.6	88.6	89.1	89.2
≥1800	79.3	87.7	89.9	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.6	90.6	90.8	90.8	91.2	91.4
≥1500	81.0	91.1	93.5	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.3	94.3	94.5	94.5	94.9	95.1
≥1200	81.7	93.2	95.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.6	96.6	96.8	96.8	97.2	97.4
≥1000	82.3	94.2	96.9	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.7	97.7	97.8	97.8	98.3	98.5
≥900	82.3	94.6	97.4	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.2	98.2	98.5	98.5	98.9	99.1
≥800	82.3	94.6	97.4	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.2	98.2	98.5	98.5	98.9	99.1
≥700	82.3	94.6	97.5	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.6	98.6	99.1	99.2
≥600	82.3	94.8	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.5	98.5	98.8	98.8	99.2	99.4
≥500	82.3	94.8	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.5	98.5	98.8	98.8	99.2	99.4
≥400	82.3	94.8	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.5	98.5	98.9	98.9	99.4	99.5
≥300	82.3	94.8	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.5	98.5	99.1	99.1	99.5	99.7
≥200	82.3	94.8	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.5	98.5	99.1	99.1	99.5	99.7
≥100	82.3	94.8	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.5	98.5	99.1	99.1	99.5	99.7
≥0	82.3	94.8	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.5	98.5	99.1	99.1	99.5	99.7

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION
PORTLAND IAP OR

STATION NAME

73-79

YEARS

MAC

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1600-0600
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING	22.6	23.4	23.8	24.6	24.9	24.9	25.2	25.4	25.5	25.7	25.8	25.8	26.0	26.1	26.9	27.5
≥ 20000	24.2	25.5	26.0	26.9	27.2	27.2	27.5	27.7	27.8	28.0	28.2	28.2	28.3	28.3	29.2	30.5
≥ 18000	24.2	25.7	26.2	27.1	27.4	27.4	27.7	27.8	28.0	28.2	28.3	28.3	28.5	28.5	29.4	30.6
≥ 16000	24.2	25.7	26.2	27.1	27.4	27.4	27.7	27.8	28.0	28.2	28.3	28.3	28.5	28.5	29.4	30.6
≥ 14000	24.6	26.2	26.6	27.5	27.8	27.8	28.2	28.3	28.5	28.6	28.8	28.8	28.9	28.9	29.8	31.1
≥ 12000	26.6	28.0	28.5	29.4	29.7	29.7	30.0	30.2	30.3	30.5	30.6	30.6	30.8	30.8	31.7	32.9
≥ 10000	28.7	29.7	30.2	31.1	31.4	31.4	31.7	31.8	32.0	32.2	32.3	32.3	32.5	32.5	33.4	34.6
≥ 9000	28.8	30.3	30.8	31.7	32.0	32.0	32.3	32.5	32.6	32.8	32.9	32.9	33.1	33.1	34.2	35.4
≥ 8000	29.4	31.2	31.7	32.6	32.9	32.9	33.2	33.4	33.5	33.7	33.8	33.8	34.0	34.0	35.1	36.3
≥ 7000	31.7	33.7	34.2	35.1	35.4	35.4	35.7	35.8	36.0	36.2	36.3	36.3	36.5	36.5	37.5	38.8
≥ 6000	35.7	38.0	38.5	39.4	39.7	39.7	40.0	40.2	40.3	40.5	40.6	40.6	40.8	40.8	41.9	43.1
≥ 5000	41.1	43.7	44.2	45.1	45.4	45.4	45.7	45.8	46.0	46.2	46.3	46.3	46.5	46.5	47.5	48.8
≥ 4500	44.6	48.0	48.6	49.5	49.8	49.8	50.2	50.3	50.5	50.6	50.8	50.8	50.9	50.9	52.0	53.2
≥ 4000	51.7	55.8	56.6	57.5	57.8	57.8	58.2	58.5	58.6	58.8	58.9	58.9	59.1	59.1	60.2	61.4
≥ 3500	57.7	62.6	63.4	64.3	64.6	64.6	64.9	65.2	65.4	65.5	65.7	65.7	65.8	65.8	66.9	68.2
≥ 3000	66.2	72.0	72.8	73.7	74.0	74.0	74.3	74.6	74.8	74.9	75.1	75.1	75.2	75.2	76.3	77.5
≥ 2500	68.8	76.5	77.2	78.3	78.8	78.8	79.1	79.4	79.5	79.7	79.8	79.8	80.0	80.0	81.1	82.3
≥ 2000	72.1	79.4	81.7	81.2	81.7	81.7	82.0	82.3	82.5	82.6	82.8	82.8	82.9	82.9	84.0	85.2
≥ 1800	71.4	79.8	80.6	81.7	82.2	82.2	82.5	82.8	82.9	83.1	83.2	83.2	83.4	83.4	84.5	85.7
≥ 1500	72.6	82.0	82.8	83.8	84.3	84.3	84.6	84.9	85.1	85.2	85.4	85.4	85.5	85.5	86.6	87.8
≥ 1200	74.9	84.8	85.8	87.1	87.5	87.5	87.8	88.2	88.3	88.5	88.6	88.6	88.8	88.8	89.8	91.1
≥ 1000	75.8	86.2	87.2	88.6	89.2	89.2	89.5	89.8	90.0	90.2	90.3	90.3	90.5	90.5	91.7	92.9
≥ 900	76.3	87.7	88.8	90.3	90.9	90.9	91.2	91.5	91.7	92.0	92.2	92.2	92.3	92.3	93.5	94.8
≥ 800	76.5	88.0	89.5	91.2	91.8	91.8	92.5	92.8	92.9	93.2	93.4	93.4	93.5	93.5	94.8	96.0
≥ 700	76.5	88.0	89.7	91.4	92.0	92.0	92.6	92.9	93.1	93.4	93.5	93.5	93.7	93.7	94.9	96.2
≥ 600	76.5	88.0	89.8	91.7	92.3	92.3	92.9	93.2	93.4	93.7	93.8	93.8	94.0	94.0	95.2	96.5
≥ 500	76.5	88.0	90.0	91.8	92.5	92.5	93.2	93.5	93.7	94.0	94.2	94.2	94.3	94.3	95.5	96.9
≥ 400	76.5	88.0	90.3	92.3	92.9	92.9	93.8	94.2	94.3	94.6	94.8	94.8	94.9	94.9	96.3	97.8
≥ 300	76.5	88.0	90.3	92.3	92.9	92.9	93.8	94.5	94.6	94.9	95.1	95.1	95.4	95.4	96.8	98.3
≥ 200	76.5	88.0	90.3	92.3	92.9	92.9	93.8	94.5	94.6	94.9	95.1	95.1	95.5	95.5	97.2	99.4
≥ 100	76.5	88.0	90.3	92.3	92.9	92.9	93.8	94.5	94.6	94.9	95.1	95.1	95.5	95.5	97.2	99.8
≥ 0	76.5	88.0	90.3	92.3	92.9	92.9	93.8	94.5	94.6	94.9	95.1	95.1	95.5	95.5	97.2	99.8

TOTAL NUMBER OF OBSERVATIONS 65

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

13-79

MAR

STATION NAME

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1970-1979
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	27.5	27.5	27.8	28.3	28.9	28.9	29.2	29.2	29.2	29.2	29.6	29.6	29.8	29.8	29.8	29.8
≥ 20000	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 18000	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 16000	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 14000	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 12000	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 10000	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 9000	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 8000	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 7000	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 6000	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 5000	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 4500	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 4000	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 3500	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 3000	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 2500	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 2000	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 1800	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 1500	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 1200	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 1000	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 900	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 800	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 700	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 600	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 500	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 400	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 300	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 200	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 100	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5
≥ 0	27.5	31.1	31.3	31.8	32.4	32.6	32.9	32.9	32.9	32.9	33.3	33.3	33.5	33.5	33.5	33.5

TOTAL NUMBER OF OBSERVATIONS 653

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2-2Y
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥0
NO CEILING	29.4	33.4	31.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 20000	33.9	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
≥ 18000	34.4	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 16000	34.4	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 14000	34.9	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
≥ 12000	37.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
≥ 10000	39.8	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 9000	40.2	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
≥ 8000	41.8	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
≥ 7000	42.7	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 6000	45.6	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
≥ 5000	51.2	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 4500	55.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 4000	62.4	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 3500	69.1	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 3000	79.1	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 2500	82.9	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 2000	85.1	91.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1800	87.1	93.5	93.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1500	88.2	95.2	95.8	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 1200	89.4	97.5	98.1	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1000	89.6	97.8	98.4	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	89.6	97.8	98.5	99.4	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	89.6	97.8	98.5	99.4	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	89.6	97.8	98.5	99.4	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	89.6	97.8	98.5	99.4	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	89.6	97.8	98.5	99.4	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	89.6	97.8	98.5	99.4	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	89.6	97.8	98.5	99.4	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	89.6	97.8	98.5	99.4	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	89.6	97.8	98.5	99.4	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	89.6	97.8	98.5	99.4	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

21-22
STATION

PORTLAND IAP OR

STATION NAME

73-74

YEARS

MAP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	32.3	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
≥ 20000	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
≥ 18000	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
≥ 16000	38.7	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥ 14000	41.1	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 12000	43.6	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 10000	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 9000	49.5	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
≥ 8000	51.7	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 7000	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 6000	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 5000	64.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥ 4500	67.4	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 4000	74.3	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 3500	80.3	82.0	82.0	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 3000	85.3	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 2500	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 2000	94.9	95.1	95.1	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1800	95.4	95.5	95.5	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1500	97.7	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1200	99.1	99.1	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1000	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 651

USAF ETAC

FORM
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 A. WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION

PORTLAND IAP OR

STATION NAME

75-79

YEARS

MAP

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000
 HOURS (GMT)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥8	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5-16	≥4	≥0
NO CEILING	34.1	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
≥ 20000	38.7	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
≥ 18000	38.7	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
≥ 16000	38.7	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
≥ 14000	39.3	40.1	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
≥ 12000	41.5	42.1	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
≥ 10000	44.5	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 9000	46.4	47.3	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
≥ 8000	48.7	49.3	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
≥ 7000	52.7	53.5	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 6000	61.1	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 5000	68.7	69.7	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 4500	71.5	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 4000	77.3	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 3500	82.8	84.9	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 3000	86.9	90.6	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 2500	93.8	93.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 2000	97.8	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1800	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1500	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1200	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1000	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 800	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 700	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 600	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 500	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 400	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 300	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 200	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 100	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 0	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS 552

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR
STATION NAME

73-79
YEARS

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

100-2300
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5-16	≥4	≥0
NO CEILING	37.8	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
≥ 20000	39.8	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
≥ 18000	39.9	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
≥ 16000	40.1	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
≥ 14000	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 12000	40.8	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 10000	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 9000	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 8000	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 7000	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 6000	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 5000	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 4500	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 4000	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 3500	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 3000	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 2500	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 2000	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 1800	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 1500	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 1200	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 1000	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 900	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 800	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 700	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 600	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 500	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 400	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 300	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 200	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 100	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
0	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION
PORTLAND TAP OR

STATION NAME

73-70

YEARS

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (24)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	5.8	11.1	31.7	31.4	31.6	31.6	31.6	31.6	31.7	31.7	31.8	31.8	31.8	31.8	32.1	32.1
≥ 18000	33.1	34.5	34.7	34.9	35.0	35.1	35.1	35.1	35.1	35.2	35.3	35.3	35.3	35.3	35.5	35.7
≥ 16000	33.4	34.8	35.1	35.2	35.3	35.3	35.4	35.4	35.5	35.5	35.6	35.6	35.6	35.6	35.8	36.0
≥ 14000	34.3	35.7	35.9	36.1	36.2	36.2	36.3	36.3	36.3	36.4	36.5	36.5	36.5	36.5	36.7	36.9
≥ 12000	35.2	37.6	37.8	38.1	38.1	38.2	38.2	38.3	38.3	38.4	38.4	38.4	38.4	38.4	38.6	38.8
≥ 10000	38.5	42.0	42.2	42.4	42.5	42.5	42.6	42.6	42.7	42.7	42.8	42.8	42.8	42.8	43.0	43.2
≥ 9000	39.8	41.2	41.4	41.7	41.8	41.8	41.9	41.9	41.9	41.9	42.0	42.0	42.1	42.1	42.3	42.4
≥ 8000	41.2	42.7	42.9	43.1	43.2	43.2	43.3	43.3	43.3	43.4	43.4	43.4	43.5	43.5	43.7	43.9
≥ 7000	43.8	45.3	45.6	45.8	45.9	45.9	46.0	46.0	46.0	46.1	46.1	46.1	46.2	46.2	46.4	46.6
≥ 6000	48.5	51.2	51.5	51.7	51.8	51.8	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 5000	55.0	57.9	58.2	58.4	58.5	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥ 4500	59.3	61.5	61.8	62.1	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 4000	66.1	69.2	69.5	69.8	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 3500	71.3	74.7	75.1	75.4	75.6	75.6	75.7	75.7	75.7	75.7	75.8	75.8	75.8	75.8	75.8	75.8
≥ 3000	77.9	82.1	82.7	83.0	83.2	83.2	83.3	83.3	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4
≥ 2500	81.9	86.1	86.5	87.2	87.4	87.4	87.5	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 2000	82.9	89.1	89.7	90.2	90.4	90.4	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 1800	83.8	90.5	91.2	91.8	92.0	92.0	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 1500	85.1	92.7	93.6	94.2	94.5	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1200	86.3	94.6	95.7	96.4	96.6	96.6	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1000	86.5	95.3	96.4	97.1	97.4	97.5	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 900	86.6	95.5	96.7	97.4	97.8	97.9	98.1	98.1	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3
≥ 800	86.6	95.6	96.9	97.6	98.0	98.1	98.3	98.3	98.3	98.3	98.4	98.5	98.5	98.5	98.5	98.5
≥ 700	86.6	95.6	96.9	97.7	98.1	98.2	98.4	98.5	98.5	98.5	98.6	98.7	98.7	98.7	98.7	98.7
≥ 600	86.6	95.7	97.0	97.9	98.3	98.4	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8
≥ 500	86.6	95.7	97.1	98.0	98.4	98.6	98.8	98.9	98.9	98.9	99.0	99.1	99.1	99.1	99.1	99.1
≥ 400	86.6	95.7	97.1	98.0	98.4	98.6	98.8	98.9	98.9	98.9	99.0	99.1	99.1	99.1	99.1	99.1
≥ 300	86.6	95.7	97.1	98.0	98.4	98.6	98.8	98.9	98.9	98.9	99.0	99.1	99.1	99.1	99.1	99.1
≥ 200	86.6	95.7	97.1	98.0	98.4	98.6	98.8	98.9	98.9	98.9	99.0	99.1	99.1	99.1	99.1	99.1
≥ 100	86.6	95.7	97.1	98.0	98.4	98.6	98.8	98.9	98.9	98.9	99.0	99.1	99.1	99.1	99.1	99.1
≥ 0	86.6	95.7	97.1	98.0	98.4	98.6	98.8	98.9	98.9	98.9	99.0	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 5277

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

73-79

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

000-000
HOURS (GMT)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	39.1	38.6	38.6	38.7	38.7	38.7	38.7	38.7	38.7	38.9	38.9	38.9	39.1	39.1	39.3	39.7
≥ 20000	41.7	41.3	41.3	41.4	41.4	41.4	41.4	41.4	41.4	41.6	41.6	41.6	41.7	41.7	41.7	41.7
≥ 18000	41.8	41.3	41.3	41.4	41.4	41.4	41.4	41.4	41.4	41.6	41.6	41.6	41.7	41.7	41.7	41.7
≥ 16000	41.8	41.4	41.4	41.6	41.6	41.6	41.6	41.6	41.6	41.7	41.7	41.7	41.9	41.9	41.9	41.9
≥ 14000	41.7	42.2	42.2	42.4	42.4	42.4	42.4	42.4	42.4	42.5	42.5	42.5	42.7	42.7	42.7	42.7
≥ 12000	43.5	43.5	43.5	43.7	43.7	43.7	43.7	43.7	43.7	43.8	43.8	43.8	44.0	44.0	44.0	44.0
≥ 10000	45.7	46.2	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.5	46.5	46.5	46.7	46.7	46.7	46.7
≥ 9000	48.3	48.9	48.9	49.0	49.0	49.0	49.0	49.0	49.0	49.2	49.2	49.2	49.4	49.4	49.4	49.4
≥ 8000	49.7	49.4	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.7	49.7	49.7	49.8	49.8	49.8	49.8
≥ 7000	51.6	52.2	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.5	52.5	52.5	52.7	52.7	52.7	52.7
≥ 6000	56.1	59.4	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.7	59.7	59.7	59.8	59.8	59.8	59.8
≥ 5000	65.4	65.4	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.7	65.7	65.7	65.9	65.9	65.9	65.9
≥ 4500	67.6	69.5	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 4000	74.3	76.3	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.7	76.7	76.7	76.8	76.8	76.8	76.8
≥ 3500	78.4	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 3000	86.5	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.4	89.4	89.4	89.5	89.5	89.5	89.5
≥ 2500	89.7	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.8	93.8	93.8	94.0	94.0	94.0	94.0
≥ 2000	91.1	95.9	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.3	96.3	96.3	96.5	96.5	96.5	96.5
≥ 1800	92.3	96.2	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.7	96.7	96.7	96.8	96.8	96.8	96.8
≥ 1500	92.1	97.6	97.6	97.9	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1	98.3	98.3	98.3	98.3
≥ 1200	92.2	97.9	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.9	98.9	98.9	99.1	99.1	99.1	99.1
≥ 1000	92.2	97.9	98.3	98.7	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.2	99.2	99.2	99.2
≥ 900	92.2	97.9	98.4	98.9	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4
≥ 800	92.2	97.9	98.4	98.9	99.1	99.1	99.1	99.1	99.1	99.2	99.2	99.2	99.4	99.4	99.4	99.4
≥ 700	92.2	97.9	98.4	99.1	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5
≥ 600	92.2	97.9	98.4	99.1	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5
≥ 500	92.2	97.9	98.4	99.1	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.5	99.5	99.5	99.5
≥ 400	92.2	97.9	98.4	99.2	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.7	99.7	99.7	99.7
≥ 300	92.2	97.9	98.4	99.2	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.7	99.7	99.7	99.7
≥ 200	92.2	97.9	98.4	99.2	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.7	99.7	99.7	99.7
≥ 100	92.2	97.9	98.4	99.2	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.7	99.7	99.7	99.7
≥ 0	92.4	98.1	98.6	99.4	99.5	99.5	99.5	99.5	99.5	99.7	99.7	99.7	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 630

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AT- WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

APR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1300-1500
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	32.7	33.7	33.7	34.1	34.3	34.3	34.5	34.5	34.5	34.7	34.8	34.8	35.0	35.0	35.1	35.1
≥ 20000	34.5	35.3	35.3	35.6	35.9	35.9	36.1	36.1	36.1	36.2	36.4	36.4	36.6	36.6	36.7	36.7
≥ 18000	34.5	35.3	35.3	35.6	35.9	35.9	36.1	36.1	36.1	36.2	36.4	36.4	36.6	36.6	36.7	36.7
≥ 16000	34.5	35.3	35.3	35.6	35.9	35.9	36.1	36.1	36.1	36.2	36.4	36.4	36.6	36.6	36.7	36.7
≥ 14000	35.3	36.6	36.6	36.9	37.2	37.2	37.4	37.4	37.4	37.5	37.7	37.7	37.8	37.8	38.0	38.0
≥ 12000	37.5	38.3	38.3	38.6	39.0	39.0	39.1	39.1	39.1	39.3	39.4	39.4	39.6	39.6	39.7	39.7
≥ 10000	39.1	40.2	40.2	40.5	40.9	40.9	41.0	41.0	41.0	41.2	41.3	41.3	41.5	41.5	41.7	41.7
≥ 9000	40.7	41.8	41.8	42.1	42.4	42.4	42.6	42.6	42.6	42.8	42.9	42.9	43.1	43.1	43.2	43.2
≥ 8000	42.3	43.4	43.4	43.7	44.0	44.0	44.2	44.2	44.2	44.4	44.5	44.5	44.7	44.7	44.8	44.8
≥ 7000	44.4	45.8	45.8	46.1	46.4	46.4	46.6	46.6	46.6	46.7	46.9	46.9	47.1	47.1	47.2	47.2
≥ 6000	49.6	51.4	51.4	51.7	52.0	52.0	52.1	52.1	52.1	52.3	52.5	52.5	52.6	52.6	52.8	52.8
≥ 5000	55.3	57.6	57.6	58.2	58.5	58.5	58.7	58.7	58.7	58.8	59.0	59.0	59.1	59.1	59.3	59.3
≥ 4500	61.4	63.6	63.6	64.2	64.5	64.5	64.7	64.7	64.7	64.9	65.0	65.0	65.2	65.2	65.3	65.3
≥ 4000	66.1	69.5	69.5	70.1	70.4	70.4	70.6	70.6	70.6	70.7	70.9	70.9	71.1	71.1	71.2	71.2
≥ 3500	73.4	77.4	77.4	78.1	78.4	78.4	78.5	78.5	78.5	78.7	78.9	78.9	79.0	79.0	79.2	79.2
≥ 3000	78.4	83.0	83.0	83.6	83.9	83.9	84.1	84.1	84.1	84.3	84.4	84.4	84.6	84.6	84.7	84.7
≥ 2500	82.2	87.6	87.6	88.4	88.7	88.7	88.9	88.9	88.9	89.1	89.2	89.2	89.3	89.3	89.5	89.5
≥ 2000	83.1	89.2	89.5	90.1	90.5	90.5	90.6	90.6	90.6	90.8	90.9	90.9	91.1	91.1	91.3	91.3
≥ 1800	83.8	90.3	90.6	91.4	91.7	91.7	91.9	91.9	91.9	92.1	92.2	92.2	92.4	92.4	92.5	92.5
≥ 1500	85.1	92.4	92.7	93.5	93.8	93.8	94.0	94.0	94.0	94.1	94.3	94.3	94.4	94.4	94.6	94.6
≥ 1200	85.7	93.5	93.8	94.8	95.1	95.1	95.2	95.2	95.2	95.4	95.5	95.5	95.7	95.7	95.9	95.9
≥ 1000	86.1	94.3	94.6	95.5	95.9	95.9	96.0	96.0	96.0	96.2	96.3	96.3	96.5	96.5	96.7	96.7
≥ 900	86.1	94.3	94.9	95.9	96.3	96.3	96.5	96.5	96.5	96.7	96.8	96.8	97.0	97.0	97.1	97.1
≥ 800	86.1	94.3	94.9	95.9	96.3	96.3	96.5	96.5	96.5	96.7	96.8	96.8	97.0	97.0	97.1	97.1
≥ 700	86.1	94.3	94.9	96.1	96.5	96.5	96.7	96.7	96.7	96.8	97.0	97.0	97.1	97.1	97.3	97.3
≥ 600	86.1	94.3	94.9	96.2	96.8	96.8	97.0	97.0	97.0	97.1	97.3	97.3	97.5	97.5	97.6	97.6
≥ 500	86.2	94.4	95.1	96.3	97.0	97.0	97.3	97.3	97.3	97.5	97.6	97.6	97.9	97.9	98.3	98.4
≥ 400	86.1	94.6	95.3	96.7	97.3	97.3	97.6	97.6	97.6	97.8	97.9	97.9	98.3	98.3	98.6	98.7
≥ 300	86.3	94.8	95.4	96.8	97.5	97.5	97.8	97.8	97.8	98.1	98.3	98.3	98.7	98.7	99.2	99.4
≥ 200	86.3	94.8	95.4	96.8	97.5	97.5	97.8	97.8	97.8	98.1	98.4	98.4	98.9	98.9	99.4	99.5
≥ 100	86.3	94.8	95.4	96.8	97.5	97.5	97.9	97.9	97.9	98.3	98.6	98.6	99.0	99.0	99.5	99.8
≥ 0	86.3	94.8	95.4	96.8	97.5	97.5	97.9	97.9	97.9	98.3	98.6	98.6	99.2	99.2	99.7	99.8

TOTAL NUMBER OF OBSERVATIONS 629

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION

PORTLAND IAP OR

STATION NAME

75-79

YEARS

APR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1600-0800
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING	25.1	26.8	27.5	28.4	29.7	28.7	28.9	29.4	29.4	29.5	29.5	29.5	29.5	29.5	29.7	30.0
≥ 20000	9.0	11.3	32.2	33.2	33.5	33.5	33.7	34.1	34.1	34.3	34.4	34.4	34.4	34.4	34.6	34.9
IV 18000	29.0	31.3	32.2	33.2	33.5	33.5	33.7	34.1	34.1	34.3	34.4	34.4	34.4	34.4	34.6	34.9
IV 16000	20.0	31.3	32.2	33.2	33.5	33.5	33.7	34.1	34.1	34.3	34.4	34.4	34.4	34.4	34.6	34.9
IV 14000	20.0	32.1	33.0	34.0	34.3	34.3	34.4	34.9	34.9	35.1	35.2	35.2	35.2	35.2	35.4	35.7
IV 12000	32.0	32.9	33.9	34.8	35.1	35.1	35.2	35.7	35.7	35.9	36.0	36.0	36.0	36.0	36.2	36.5
IV 10000	31.9	34.3	35.2	36.2	36.5	36.5	36.7	37.1	37.1	37.3	37.5	37.5	37.5	37.5	37.6	37.9
IV 9000	32.0	35.2	36.2	37.2	37.5	37.5	37.6	38.1	38.1	38.3	38.4	38.4	38.4	38.4	38.6	38.9
IV 8000	34.6	37.0	37.9	38.9	39.2	39.2	39.4	39.8	39.8	40.0	40.2	40.2	40.2	40.2	40.3	40.6
IV 7000	37.8	40.6	41.6	42.5	42.9	42.9	43.0	43.5	43.5	43.7	43.8	43.8	43.8	43.8	44.0	44.3
IV 6000	42.5	45.9	46.8	47.8	48.1	48.1	48.3	48.7	48.7	48.9	49.0	49.0	49.0	49.0	49.2	49.5
IV 5000	48.9	52.9	53.8	54.8	55.1	55.1	55.2	55.7	55.7	55.9	56.0	56.0	56.0	56.0	56.2	56.5
IV 4500	52.4	56.8	57.8	58.7	59.0	59.0	59.2	59.7	59.7	59.8	60.0	60.0	60.0	60.0	60.2	60.5
IV 4000	59.5	64.1	65.1	66.0	66.3	66.3	66.5	67.0	67.0	67.1	67.3	67.3	67.3	67.3	67.5	67.8
IV 3500	62.4	67.1	68.1	69.0	69.4	69.4	69.5	70.0	70.0	70.2	70.3	70.3	70.3	70.3	70.5	70.8
IV 3000	69.0	74.0	74.9	75.9	76.2	76.2	76.3	76.8	76.8	77.0	77.1	77.1	77.1	77.1	77.3	77.6
IV 2500	74.3	80.0	81.0	81.9	82.2	82.2	82.4	82.9	82.9	83.0	83.2	83.2	83.2	83.2	83.3	83.7
IV 2000	76.0	83.0	84.3	85.4	85.7	85.7	86.2	86.7	86.7	86.8	87.0	87.0	87.0	87.0	87.1	87.5
IV 1800	75.5	84.6	86.0	87.1	87.8	87.8	87.9	88.4	88.4	88.6	88.7	88.7	88.7	88.7	88.9	89.2
IV 1500	75.6	85.9	87.5	88.6	89.2	89.2	89.4	89.8	89.8	90.0	90.2	90.2	90.2	90.2	90.3	90.6
IV 1200	79.8	88.4	90.0	91.1	91.9	91.9	92.1	92.5	92.5	92.7	92.9	92.9	92.9	92.9	93.1	93.3
IV 1000	72.8	89.4	91.0	92.2	93.0	93.0	93.2	93.7	93.7	93.8	94.0	94.0	94.0	94.0	94.1	94.4
IV 900	72.8	89.7	91.4	92.7	93.5	93.5	93.7	94.1	94.1	94.3	94.4	94.4	94.4	94.4	94.6	94.9
IV 800	80.2	90.0	91.9	93.3	94.1	94.1	94.3	94.8	94.8	94.9	95.1	95.1	95.1	95.1	95.2	95.6
IV 700	80.3	90.5	92.4	93.8	94.6	94.6	94.8	95.2	95.2	95.4	95.6	95.6	95.6	95.6	95.7	96.0
IV 600	80.3	90.5	92.5	94.0	94.8	94.8	94.9	95.4	95.4	95.6	95.7	95.7	95.7	95.7	95.9	96.2
IV 500	80.3	90.5	92.5	94.1	94.9	95.1	95.4	95.9	95.9	96.0	96.2	96.2	96.2	96.2	96.3	96.7
IV 400	80.3	90.5	92.5	94.1	94.9	95.2	95.6	96.0	96.0	96.2	96.3	96.3	96.3	96.3	97.0	97.5
IV 300	80.3	90.5	92.5	94.1	94.9	95.2	96.0	96.5	96.5	96.8	97.1	97.1	97.1	97.5	98.4	98.9
IV 200	80.3	90.5	92.5	94.1	94.9	95.2	96.3	96.8	96.8	97.1	97.6	97.6	97.6	98.3	99.2	99.7
IV 100	80.3	90.5	92.5	94.1	94.9	95.2	96.3	96.8	96.8	97.1	97.6	97.6	97.6	98.3	99.2	99.7
IV 0	80.3	90.5	92.5	94.1	94.9	95.2	96.3	96.8	96.8	97.1	97.6	97.6	97.6	98.3	99.2	99.7

TOTAL NUMBER OF OBSERVATIONS 631

USAF ETAC

FORM
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

STATION
22

PORTLAND IAP OR

STATION NAME

73-79

YEARS

APR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1930-1950
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	25.6	78.7	29.2	30.3	30.5	30.5	30.8	30.8	30.8	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 20000	29.7	83.7	33.7	34.4	34.9	34.9	35.2	35.2	35.2	35.4	35.4	35.4	35.4	35.4	35.4	35.4
≥ 18000	29.8	83.2	33.8	34.6	35.1	35.1	35.4	35.4	35.4	35.6	35.6	35.6	35.6	35.6	35.6	35.6
≥ 16000	29.8	83.2	33.8	34.6	35.1	35.1	35.4	35.4	35.4	35.6	35.6	35.6	35.6	35.6	35.6	35.6
≥ 14000	30.8	84.1	34.0	35.4	35.9	35.9	36.2	36.2	36.2	36.3	36.3	36.3	36.3	36.3	36.3	36.3
≥ 12000	32.4	85.7	36.3	37.1	37.6	37.6	37.9	37.9	37.9	38.1	38.1	38.1	38.1	38.1	38.1	38.1
≥ 10000	34.4	87.6	38.3	39.0	39.5	39.5	39.8	39.8	39.8	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 9000	34.4	87.6	38.3	39.4	39.8	39.8	40.2	40.2	40.2	40.3	40.3	40.3	40.3	40.3	40.3	40.3
≥ 8000	36.3	89.7	40.3	41.1	41.6	41.6	41.9	41.9	41.9	42.1	42.1	42.1	42.1	42.1	42.1	42.1
≥ 7000	37.1	90.6	41.4	42.2	42.7	42.7	43.0	43.0	43.0	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥ 6000	42.4	46.6	46.7	47.5	47.9	47.9	48.3	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 5000	47.9	51.6	52.2	53.1	53.5	53.5	53.8	53.8	53.8	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 4500	51.1	55.1	55.7	56.5	57.1	57.1	57.3	57.3	57.3	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥ 4000	55.7	59.7	60.3	61.1	61.6	61.6	61.9	61.9	61.9	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 3500	60.8	64.8	65.4	66.2	66.7	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 3000	68.1	73.2	73.8	74.6	75.1	75.1	75.4	75.4	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 2500	76.3	82.5	83.2	84.0	84.4	84.4	84.8	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 2000	80.6	87.6	88.3	89.0	89.5	89.5	89.8	89.8	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1800	87.9	89.2	89.8	90.6	91.1	91.1	91.4	91.4	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1500	93.7	94.2	94.3	94.4	94.4	94.4	94.8	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1200	94.9	93.8	95.1	96.0	96.5	96.5	96.8	96.8	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1000	95.1	94.1	95.4	96.7	97.5	97.5	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 900	95.1	94.1	95.4	97.1	97.8	97.8	98.1	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 800	95.1	94.3	95.7	97.5	98.3	98.3	98.7	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 700	95.1	94.3	95.7	97.5	98.3	98.3	98.7	98.7	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 600	95.1	94.3	95.7	97.5	98.3	98.3	98.7	98.7	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 500	95.1	94.3	95.7	97.5	98.3	98.3	98.7	98.7	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400	95.1	94.3	95.7	97.6	98.4	98.4	98.9	98.9	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300	95.1	94.3	95.7	97.6	98.4	98.4	98.9	98.9	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 200	95.1	94.3	95.7	97.6	98.4	98.4	98.9	98.9	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	95.1	94.3	95.7	97.6	98.4	98.4	98.9	98.9	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	95.1	94.4	95.9	97.8	98.6	98.6	99.1	99.1	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

73-79

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

12710-14710
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
≥ 20000	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥ 19000	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 16000	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 14000	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 12000	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
≥ 10000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 9000	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
≥ 8000	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
≥ 7000	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
≥ 6000	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 5000	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 4500	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 4000	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 3500	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 3000	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 2500	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 2000	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1800	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1500	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 900	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 800	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 200	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 631

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AFM WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR
STATION NAME

1979
YEARS

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
≥ 20000	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 18000	43.5	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
≥ 16000	43.5	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
≥ 14000	44.6	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 12000	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
≥ 10000	48.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
≥ 9000	49.5	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥ 8000	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
≥ 7000	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥ 6000	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥ 5000	64.9	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 4500	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 4000	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 3500	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 3000	89.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2500	93.5	94.8	94.8	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 2000	95.1	97.0	97.0	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1800	95.7	97.8	97.8	98.1	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1500	96.0	98.4	98.4	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1200	96.2	99.0	99.0	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000	96.2	99.0	99.0	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 900	96.2	99.2	99.5	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	96.2	99.2	99.5	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	96.2	99.2	99.5	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	96.2	99.2	99.5	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	96.2	99.2	99.5	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	96.2	99.2	99.5	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	96.2	99.2	99.5	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	96.2	99.2	99.5	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	96.2	99.2	99.5	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	96.2	99.2	99.5	99.7	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 631

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

73-79

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1947-2000
HOURS 1151

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
≥ 20000	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
≥ 18000	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
≥ 16000	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
≥ 14000	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 12000	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 10000	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 9000	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 8000	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 7000	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 6000	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 5000	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 4500	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 4000	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 3500	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 3000	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 2500	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 2000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1800	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1500	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1200	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 900	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 800	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 200	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 622

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION 26 PORTLAND IAP OR
STATION NAME

73-79
YEARS

APP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 20000	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥ 18000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
≥ 16000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
≥ 14000	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 12000	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
≥ 10000	55.4	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥ 9000	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥ 8000	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥ 7000	63.7	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 6000	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
≥ 5000	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 4500	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 4000	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 3500	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 3000	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 2500	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 2000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1800	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1500	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1200	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 630

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
ATM WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

73-79

APR

STATION NAME

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥¾	≥¾	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	34.2	35.0	35.7	35.4	35.6	35.6	35.6	35.7	35.7	35.8	35.8	35.8	35.8	35.8	35.9	35.9
≥ 18000	39.5	40.5	40.7	40.9	41.1	41.1	41.2	41.2	41.2	41.3	41.3	41.3	41.3	41.4	41.4	41.5
≥ 16000	39.6	40.6	40.8	41.1	41.2	41.2	41.3	41.4	41.4	41.4	41.5	41.5	41.5	41.5	41.6	41.6
≥ 14000	41.8	41.8	42.0	42.3	42.4	42.4	42.5	42.5	42.5	42.6	42.7	42.7	42.7	42.7	42.7	42.8
≥ 12000	42.5	43.5	43.7	43.9	44.1	44.1	44.2	44.2	44.2	44.3	44.3	44.3	44.4	44.4	44.4	44.5
≥ 10000	44.6	45.8	46.0	46.3	46.4	46.4	46.5	46.5	46.5	46.6	46.7	46.7	46.7	46.7	46.7	46.8
≥ 9000	46.0	47.2	47.4	47.6	47.8	47.8	47.9	47.9	47.9	48.0	48.1	48.1	48.1	48.1	48.1	48.2
≥ 8000	47.3	48.5	48.7	49.0	49.1	49.1	49.2	49.3	49.3	49.4	49.4	49.4	49.4	49.4	49.5	49.5
≥ 7000	50.2	51.6	51.8	52.1	52.2	52.2	52.3	52.3	52.3	52.4	52.4	52.4	52.4	52.5	52.5	52.6
≥ 6000	55.2	56.8	57.0	57.3	57.4	57.4	57.5	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.8	57.8
≥ 5000	61.2	62.8	63.0	63.4	63.5	63.5	63.6	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.9	64.0
≥ 4500	65.1	67.2	67.4	67.8	67.9	67.9	68.0	68.1	68.1	68.1	68.2	68.2	68.2	68.2	68.3	68.3
≥ 4000	70.7	73.1	73.4	73.7	73.7	73.7	73.9	74.0	74.0	74.1	74.1	74.1	74.1	74.2	74.2	74.2
≥ 3500	75.6	78.4	78.6	79.0	79.1	79.1	79.2	79.3	79.3	79.3	79.4	79.4	79.4	79.4	79.5	79.5
≥ 3000	82.0	85.2	85.5	85.9	86.0	86.0	86.1	86.1	86.1	86.2	86.3	86.3	86.3	86.3	86.3	86.4
≥ 2500	86.0	90.0	90.3	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.2	91.2	91.2	91.2	91.3	91.3
≥ 2000	90.0	92.8	93.2	93.7	93.8	93.8	93.9	94.0	94.0	94.1	94.1	94.1	94.2	94.2	94.2	94.2
≥ 1800	93.7	95.8	96.2	96.6	96.7	96.7	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1500	95.2	96.2	96.6	96.7	96.8	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1200	96.1	96.6	96.6	96.7	96.8	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1000	96.1	96.6	96.7	96.7	96.8	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 900	96.1	96.6	96.7	96.7	96.8	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 800	96.1	96.6	96.7	96.7	96.8	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 700	96.1	96.6	96.7	96.7	96.8	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 600	96.1	96.6	96.7	96.7	96.8	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 500	96.1	96.6	96.7	96.7	96.8	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 400	96.1	96.6	96.7	96.7	96.8	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 300	96.1	96.6	96.7	96.7	96.8	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 200	96.1	96.6	96.7	96.7	96.8	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 100	96.1	96.6	96.7	96.7	96.8	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 0	96.1	96.6	96.7	96.7	96.8	96.8	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0

TOTAL NUMBER OF OBSERVATIONS 5132

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION
PORTLAND IAP OR

STATION NAME

YEARS
73-79

MONTH
MAY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

000-01200
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	44.9	45.4	45.4	45.5	47.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
≥ 20000	46.5	46.9	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 18000	46.9	47.4	47.4	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
≥ 16000	47.2	47.7	47.7	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
≥ 14000	47.4	47.8	47.8	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
≥ 12000	49.2	49.7	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥ 10000	51.1	51.7	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥ 9000	51.1	51.7	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥ 8000	51.3	52.5	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 7000	54.5	55.1	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
≥ 6000	58.6	59.4	59.4	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 5000	66.6	68.3	68.3	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 4500	71.8	73.5	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4000	77.8	79.8	80.3	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 3500	81.7	83.7	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 3000	87.7	89.3	90.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 2500	91.4	93.7	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 2000	93.7	96.9	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1800	93.8	97.1	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1500	94.0	97.4	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1200	94.2	97.7	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	94.2	97.8	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 900	94.2	98.0	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	94.2	98.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700	94.2	98.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600	94.3	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	94.3	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	94.3	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	94.3	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	94.3	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	94.3	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	94.3	98.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 652

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAAC

CEILING VERSUS VISIBILITY

STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

17117-10503
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	34.3	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
≥ 20000	37.6	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 18000	37.6	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
IV 16000	37.6	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
IV 14000	39.2	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
IV 12000	39.3	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
IV 10000	42.1	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
IV 9000	43.2	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
IV 8000	43.3	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
IV 7000	47.5	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
IV 6000	52.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IV 5000	59.9	62.2	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 4500	64.8	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
IV 4000	73.1	75.9	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 3500	77.3	81.5	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
IV 3000	82.2	86.6	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IV 2500	87.6	92.1	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 2000	89.9	94.8	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IV 1800	91.1	95.5	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 1500	91.5	96.2	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 1200	91.1	96.9	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 1000	91.2	97.2	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 900	91.2	97.2	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 800	91.2	97.8	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 700	91.2	97.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 600	91.2	97.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 500	91.2	97.8	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 400	91.2	98.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 300	91.2	98.0	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 200	91.2	98.0	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 100	91.2	98.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 0	91.2	98.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 651

USAF ETAC

FORM
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

21229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1400-0000
HOURS (IST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	29.2	32.7	33.3	33.0	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
≥ 20000	33.5	37.3	37.9	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
≥ 18000	33.8	37.6	38.2	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 16000	33.8	37.6	38.2	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 14000	34.1	38.1	38.7	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
≥ 12000	35.3	39.6	40.2	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 10000	36.4	40.7	41.3	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
≥ 9000	36.4	41.2	41.8	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
≥ 8000	37.7	41.8	42.4	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
≥ 7000	38.9	43.6	44.2	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 6000	43.3	48.4	49.1	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
≥ 5000	51.1	56.2	56.8	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 4500	57.1	62.7	63.3	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 4000	63.3	69.7	70.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 3500	67.9	75.1	75.6	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 3000	73.7	81.4	82.2	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 2500	76.7	84.8	85.6	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 2000	80.2	88.8	89.9	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 1800	81.8	89.6	90.6	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 1500	82.9	92.2	93.2	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1200	85.4	94.8	95.9	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1000	85.6	95.2	96.3	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 900	85.7	95.5	96.6	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800	85.7	95.9	96.9	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 700	85.7	96.1	97.2	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 600	85.7	96.1	97.4	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 500	85.7	96.1	97.5	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 400	85.7	96.1	97.5	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 300	85.7	96.1	97.5	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 200	85.7	96.1	97.5	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 100	85.7	96.1	97.5	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 0	85.7	96.1	97.5	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8

TOTAL NUMBER OF OBSERVATIONS 151

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1900-1100
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING	33.2	34.7	35.	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
≥ 20000	36.4	37.9	38.2	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
IV 18000	36.4	37.9	38.2	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
IV 16000	36.4	37.9	38.2	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
IV 14000	36.4	38.4	38.7	38.9	39.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
IV 1200	38.1	39.6	39.9	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
IV 1000	39.3	40.9	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
IV 9000	42.6	42.2	42.5	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
IV 8000	42.5	44.7	45.7	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
IV 7000	43.8	46.2	46.5	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
IV 6000	45.1	48.5	48.8	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
IV 5000	50.5	54.1	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
IV 4500	55.	57.8	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
IV 4000	62.2	65.7	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
IV 3500	67.	70.8	71.1	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
IV 3000	77.1	81.3	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
IV 2500	83.9	86.5	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
IV 2000	89.4	94.5	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 1800	93.6	95.7	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 1500	91.9	91.8	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 1200	92.3	98.8	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 1000	92.3	98.8	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 900	92.5	98.9	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 800	92.5	98.9	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 700	92.5	98.9	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 600	92.5	98.9	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 500	92.5	98.9	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 400	92.5	98.9	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 300	92.5	98.9	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 200	92.5	98.9	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 100	92.5	98.9	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 0	92.5	98.9	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAAC

CEILING VERSUS VISIBILITY

STATION 29 PORTLAND IAP OR

73-79

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
≥ 20000	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
≥ 18000	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
≥ 16000	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 14000	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 12000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 10000	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
≥ 9000	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
≥ 8000	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
≥ 7000	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 6000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 5000	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 4500	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 4000	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 3500	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 3000	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 2500	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 2000	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1800	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1500	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 650

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

3500-1700
HOURS (EST.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
≥ 20000	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
≥ 18000	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
IV 16000	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
IV 14000	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
IV 12000	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 10000	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
IV 9000	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
IV 8000	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 7000	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
IV 6000	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
IV 5000	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
IV 4500	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
IV 4000	85.8	85.8	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
IV 3500	89.8	89.8	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV 3000	93.4	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
IV 2500	94.9	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 2000	96.6	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 1800	96.6	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 1500	96.6	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 1200	96.6	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 1000	96.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	96.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	96.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	96.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	96.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	96.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	96.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	96.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	96.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	96.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	96.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 657

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2300
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
≥20000	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥18000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
≥16000	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥14000	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥12000	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
≥10000	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥9000	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥8000	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥7000	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥6000	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥5000	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥4500	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥4000	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥3500	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥3000	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥2500	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥2000	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥1800	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥1500	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥1200	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 650

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2 124
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 20000	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
IV 18000	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
IV 16000	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
IV 14000	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
IV 12000	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 10000	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
IV 9000	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
IV 8000	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
IV 7000	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
IV 6000	64.8	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
IV 5000	72.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
IV 4500	76.8	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
IV 4000	81.1	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
IV 3500	86.2	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
IV 3000	89.9	92.8	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
IV 2500	92.2	95.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
IV 2000	93.2	96.9	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 1800	93.5	97.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 1500	93.9	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 1200	94.1	98.8	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 1000	94.1	98.9	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 900	94.2	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 800	94.2	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 700	94.2	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 600	94.2	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 500	94.2	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 400	94.2	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 300	94.2	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 200	94.2	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 100	94.2	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 0	94.2	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
ATR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION
PORTLAND IAP OR

STATION NAME
PORTLAND IAP OR

YEARS
73-79

MONTH
MAY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (EST.)
ALL

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	40.3	41.1	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 20000	43.5	44.5	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 18000	43.9	44.0	44.9	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
≥ 16000	44.2	44.9	45.0	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 14000	44.6	45.5	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
≥ 12000	46.2	47.2	47.3	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 10000	47.8	48.9	49.0	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
≥ 9000	49.0	50.1	50.2	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 8000	51.1	51.5	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 7000	52.9	54.2	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 6000	57.1	58.5	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 5000	64.0	65.9	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 4500	68.5	70.7	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 4000	75.3	78.0	78.2	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 3500	81.0	83.1	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 3000	85.8	89.3	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 2500	89.4	93.3	93.6	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 2000	91.5	95.8	96.3	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1800	92.0	96.4	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1500	92.5	97.5	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1200	93.1	98.2	98.7	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1000	93.1	98.3	98.9	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900	93.2	98.4	99.0	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	93.2	98.6	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700	93.2	98.6	99.2	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	93.2	98.6	99.3	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	93.2	98.6	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	93.2	98.6	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	93.2	98.6	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	93.2	98.6	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	93.2	98.6	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0	93.2	98.6	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 5294

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

21-29
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

JUN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1000-1200
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥0
NO CEILING	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 20000	49.6	5.2	57.2	59.2	50.2	50.2	50.2	50.2	50.2	50.2	50.4	50.6	50.6	50.6	50.6	50.6
≥ 18000	49.9	53.6	57.6	57.6	51.6	50.6	50.6	50.6	50.6	50.7	50.9	50.9	50.9	50.9	50.9	50.9
≥ 16000	49.9	57.6	57.6	57.6	57.6	50.6	50.6	50.6	50.6	50.7	50.9	50.9	50.9	50.9	50.9	50.9
≥ 14000	51.5	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.3	52.5	52.5	52.5	52.5	52.5	52.5
≥ 12000	52.5	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.3	53.4	53.4	53.4	53.4	53.4	53.4
≥ 10000	54.1	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.8	55.1	55.1	55.1	55.1	55.1	55.1
≥ 9000	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	55.1	55.2	55.2	55.2	55.2	55.2	55.2
≥ 8000	55.6	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.4	56.6	56.6	56.6	56.6	56.6	56.6
≥ 7000	58.2	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	59.0	59.1	59.1	59.1	59.1	59.1	59.1
≥ 6000	61.2	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	62.0	62.2	62.2	62.2	62.2	62.2	62.2
≥ 5000	68.2	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	69.0	69.2	69.2	69.2	69.2	69.2	69.2
≥ 4500	73.1	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.8	73.9	73.9	73.9	73.9	73.9	73.9
≥ 4000	78.9	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.7	79.8	79.8	79.8	79.8	79.8	79.8
≥ 3500	81.2	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.2	82.4	82.4	82.4	82.4	82.4	82.4
≥ 3000	87.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.7	88.9	88.9	88.9	88.9	88.9	88.9
≥ 2500	91.3	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.8	93.1	93.1	93.1	93.1	93.1	93.1
≥ 2000	93.0	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	95.2	95.4	95.4	95.4	95.4	95.4	95.4
≥ 1800	94.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	96.3	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1500	95.2	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1200	95.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	98.7	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1000	95.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 900	95.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 800	95.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 700	95.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 600	95.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 500	95.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 400	95.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 300	95.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 200	95.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 100	95.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0
≥ 0	95.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS 629

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/NAAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

73-79

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13011-0507
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	41.2	41.3	41.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8	42.0	42.0	42.0	42.0	42.0	42.0
≥ 20000	42.1	43.2	43.6	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.9	43.9	43.9	43.9	43.9	43.9
≥ 18000	42.4	43.6	43.9	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.2	44.2	44.2	44.2	44.2	44.2
≥ 16000	42.4	43.6	43.9	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.2	44.2	44.2	44.2	44.2	44.2
≥ 14000	44.0	45.2	45.5	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.8	45.8	45.8	45.8	45.8	45.8
≥ 12000	46.1	47.2	47.5	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.9	47.9	47.9	47.9	47.9	47.9
≥ 10000	47.2	48.3	48.6	48.8	48.8	48.8	48.8	48.8	48.8	48.8	49.0	49.0	49.0	49.0	49.0	49.0
≥ 9000	48.0	49.1	49.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.8	49.8	49.8	49.8	49.8	49.8
≥ 8000	48.8	49.9	50.2	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.6	50.6	50.6	50.6	50.6	50.6
≥ 7000	50.6	51.7	52.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.3	52.3	52.3	52.3	52.3	52.3
≥ 6000	53.1	54.4	54.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	55.0	55.0	55.0	55.0	55.0	55.0
≥ 5000	59.3	60.6	60.9	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.2	61.2	61.2	61.2	61.2	61.2
≥ 4500	62.6	63.9	64.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.5
≥ 4000	69.3	70.7	71.0	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.4	71.4	71.4	71.4	71.4	71.4
≥ 3500	73.4	75.0	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.7	75.7	75.7	75.7	75.7	75.7
≥ 3000	79.0	80.8	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.4	81.4	81.4	81.4	81.4	81.4
≥ 2500	83.9	85.7	86.0	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3
≥ 2000	87.0	89.7	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1800	88.7	91.4	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.1	92.1	92.1	92.1	92.1	92.1
≥ 1500	90.3	94.1	94.4	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1200	92.7	96.8	97.3	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1000	93.2	97.3	97.8	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900	93.6	97.8	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9
≥ 800	93.6	97.8	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9
≥ 700	93.6	97.8	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9
≥ 600	93.6	97.8	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9
≥ 500	93.6	97.8	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9
≥ 400	93.6	97.8	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9
≥ 300	93.6	97.8	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9
≥ 200	93.6	97.8	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9
≥ 100	93.6	97.8	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9
≥ 0	93.6	97.8	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS 629

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

13-79

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1600-2400
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	35.5	39.5	39.6	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.2	40.2	40.2	40.2	40.2	40.2
≥20000	39.5	41.8	42.1	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.8	42.8	42.8	42.8	42.8	42.8
≥18000	38.2	42.1	42.3	42.8	42.8	42.8	42.8	42.8	42.8	42.9	42.9	42.9	42.9	42.9	42.9	42.9
IV 16000	38.3	42.1	42.4	42.9	42.9	42.9	42.9	42.9	42.9	43.1	43.1	43.1	43.1	43.1	43.1	43.1
≥14000	38.4	42.4	42.8	43.2	43.2	43.2	43.2	43.2	43.2	43.4	43.4	43.4	43.4	43.4	43.4	43.4
IV 12000	40.2	44.0	44.4	44.8	44.8	44.8	44.8	44.8	44.8	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥10000	40.9	44.7	45.0	45.5	45.5	45.5	45.5	45.5	45.5	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 9000	40.9	44.7	45.0	45.5	45.5	45.5	45.5	45.5	45.5	45.6	45.6	45.6	45.6	45.6	45.6	45.6
≥8000	42.3	45.1	46.4	46.9	46.9	46.9	46.9	46.9	46.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 7000	44.2	48.1	48.3	48.8	48.8	48.8	48.8	48.8	48.8	49.1	49.1	49.1	49.1	49.1	49.1	49.1
≥6000	45.9	49.8	50.1	50.6	50.6	50.6	50.6	50.6	50.6	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 5000	51.7	54.5	54.8	55.3	55.3	55.3	55.3	55.3	55.3	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥4500	52.6	56.6	56.9	57.4	57.4	57.4	57.4	57.4	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6
IV 4000	59.8	63.9	64.2	64.7	64.7	64.7	64.7	64.7	64.7	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥3500	63.8	67.7	68.1	68.7	68.7	68.7	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8
IV 3000	69.2	73.3	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥2500	76.1	81.3	81.6	81.2	81.2	81.2	81.2	81.2	81.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4
IV 2000	79.2	84.1	84.4	85.1	85.1	85.1	85.1	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥1800	80.6	86.1	86.3	87.0	87.0	87.0	87.0	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IV 1500	85.1	91.9	92.4	93.0	93.0	93.0	93.0	93.0	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥1200	87.1	95.3	96.2	96.8	96.8	96.8	96.8	96.8	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 1000	87.8	97.3	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥900	88.2	97.8	98.6	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 800	88.2	97.9	98.7	99.5	99.5	99.5	99.5	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥700	88.2	97.9	98.7	99.5	99.5	99.5	99.5	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 600	88.4	98.1	98.9	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥500	88.6	98.3	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 400	88.6	98.3	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥300	88.6	98.3	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 200	88.6	98.3	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥100	88.6	98.3	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 0	88.6	98.3	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 629

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AFW WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2 24
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1970-1971
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	38.1	38.7	39.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
≥20000	38.4	42.7	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
≥18000	38.7	43.1	43.2	43.2	43.2	43.2	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥16000	38.9	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥14000	39.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
≥12000	40.5	44.8	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
≥10000	41.3	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
≥9000	41.6	45.9	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥8000	43.5	47.8	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
≥7000	44.1	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥6000	46.3	50.6	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
≥5000	50.6	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥4500	53.2	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥4000	56.1	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥3500	56.6	70.5	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥3000	72.7	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥2500	86.3	85.6	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥2000	86.1	91.3	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥1800	88.9	94.3	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥1500	90.2	96.3	96.8	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥1200	91.1	98.4	98.9	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥1000	91.1	98.9	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥900	91.1	98.9	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥800	91.1	98.9	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥700	91.1	98.9	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥600	91.1	98.9	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥500	91.1	98.9	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥400	91.1	98.9	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥300	91.1	98.9	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥200	91.1	98.9	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100	91.1	98.9	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0	91.1	98.9	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

122
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

12 00-14 00
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	46.5	47.1	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥20000	51.9	52.5	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥18000	51.9	52.5	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥16000	51.9	52.5	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥14000	52.2	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥12000	53.7	54.4	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
≥10000	55.4	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥9000	55.4	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥8000	56.3	57.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥7000	57.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.9
≥6000	61.3	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.4
≥5000	66.5	67.3	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.6
≥4500	69.7	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.8
≥4000	77.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.2
≥3500	82.7	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.3
≥3000	87.6	89.0	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.5
≥2500	91.6	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.5
≥2000	93.3	95.7	96.0	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.3
≥1800	94.4	96.2	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.5
≥1500	95.6	98.6	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4
≥1200	95.7	98.9	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.7
≥1000	95.7	98.9	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.7
≥900	95.7	98.9	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.7
≥800	95.9	99.2	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥700	95.9	99.2	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥600	95.9	99.2	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥500	95.9	99.2	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥400	95.9	99.2	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥300	95.9	99.2	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥200	95.9	99.2	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥100	95.9	99.2	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥0	95.9	99.2	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 631

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥ 20000	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
IV 18000	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 16000	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
IV 14000	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
IV 12000	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
IV 10000	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 9000	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
IV 8000	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
IV 7000	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
IV 6000	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
IV 5000	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
IV 4500	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
IV 4000	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
IV 3500	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
IV 3000	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
IV 2500	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 2000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 1800	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 1500	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 1200	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 1000	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 900	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 800	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 700	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 600	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 500	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 400	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 300	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 200	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 100	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 630

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

73-74

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥ 20000	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 18000	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 16000	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 14000	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 12000	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 10000	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 9000	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 8000	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 7000	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 6000	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 5000	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 4500	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 4000	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 3500	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 3000	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 2500	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 2000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1800	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 1500	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1200	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1000	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 900	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 800	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 630

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	55.6	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 20000	57.6	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
≥ 18000	57.6	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
≥ 16000	57.6	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 14000	58.1	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 12000	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 10000	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 9000	61.7	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
≥ 8000	62.7	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 7000	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 6000	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 5000	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 4500	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 4000	86.7	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 3500	89.4	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 3000	92.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 2500	95.1	96.8	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 2000	95.6	97.6	97.6	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1800	95.7	97.8	98.1	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1500	96.3	98.4	98.7	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1200	96.3	98.4	98.7	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	96.3	98.4	98.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 900	96.3	98.4	99.0	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	96.3	98.4	99.0	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	96.3	98.4	99.0	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	96.3	98.4	99.0	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	96.3	98.4	99.0	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	96.3	98.4	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	96.3	98.4	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	96.3	98.4	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	96.3	98.4	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	96.3	98.4	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1977
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

JUN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL
HOURS (1251)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	45.9	47.2	47.3	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.5	47.5	47.5	47.5	47.5	47.5
≥ 20000	49.5	50.6	51.7	50.8	51.8	50.8	50.8	50.8	50.8	50.8	50.9	50.9	50.9	50.9	50.9	50.9
≥ 18000	49.4	50.8	50.9	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.1	51.1	51.1	51.1	51.1	51.1
≥ 16000	49.7	51.0	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.3	51.3	51.3	51.3	51.3	51.3
≥ 14000	51.5	51.9	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
≥ 12000	51.7	53.1	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4
≥ 10000	52.9	54.3	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.6	54.6	54.6	54.6	54.6	54.6
≥ 9000	53.3	54.7	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	55.0	55.0	55.0	55.0	55.0	55.0
≥ 8000	54.6	56.0	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3
≥ 7000	56.5	57.9	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 6000	60.6	62.0	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3
≥ 5000	66.4	67.8	68.1	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1
≥ 4500	69.6	71.1	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.4
≥ 4000	76.2	77.6	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.9	77.9	77.9	77.9	77.9	77.9
≥ 3500	79.9	81.7	81.8	81.9	81.9	81.9	81.9	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 3000	84.7	86.7	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.2
≥ 2500	88.7	91.8	91.1	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.4
≥ 2000	93.4	93.4	93.7	93.9	94.7	94.0	94.7	94.0	94.7	94.0	94.1	94.1	94.1	94.1	94.1	94.1
≥ 1800	91.9	94.6	94.9	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.4
≥ 1500	93.4	96.7	97.1	97.3	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.6
≥ 1200	94.2	98.0	98.4	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1000	94.3	98.4	98.8	99.1	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900	94.5	98.5	98.9	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	94.5	98.5	99.1	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
≥ 700	94.5	98.6	99.1	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	94.5	98.6	99.1	99.5	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8
≥ 500	94.5	98.6	99.1	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	94.5	98.6	99.2	99.6	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	94.5	98.6	99.2	99.6	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	94.5	98.6	99.2	99.6	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	94.5	98.6	99.2	99.6	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	94.5	98.6	99.2	99.6	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 5337

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

21229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200
HOURS U.S.T.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING ≥ 20000	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 18000	64.4	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
IV 16000	64.5	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
IV 14000	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 12000	65.9	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
IV 10000	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 8000	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
IV 7000	68.2	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
IV 6000	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
IV 5000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 4500	72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
IV 4000	78.6	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
IV 3500	81.8	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
IV 3000	85.9	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 2500	89.6	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
IV 2000	93.1	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
IV 1800	94.3	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
IV 1500	96.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IV 1200	96.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 1000	97.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 900	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 800	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 700	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 600	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 500	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 400	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 300	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 200	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 100	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 0	97.5	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION
PORTLAND IAP OR

STATION NAME

75-79

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

11300-75.00
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	48.4	49.5	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 20000	51.7	51.8	51.8	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 18000	51.8	51.9	51.9	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 16000	51.2	52.2	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
IV 14000	52.7	53.9	53.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 12000	53.0	55.0	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
IV 10000	55.1	56.2	56.2	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 9000	55.8	57.1	57.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
IV 8000	56.4	57.8	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 7000	57.6	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
IV 6000	59.8	61.1	61.1	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
IV 5000	63.7	65.1	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 4500	68.7	70.0	70.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
IV 4000	74.5	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
IV 3500	78.2	80.0	80.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
IV 3000	83.4	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
IV 2500	85.9	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
IV 2000	88.3	91.4	91.4	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
IV 1800	89.2	92.6	92.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
IV 1500	91.6	94.6	94.6	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 1200	91.2	95.2	95.4	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
IV 1000	91.7	96.8	96.9	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IV 900	92.1	97.4	97.5	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 800	92.1	97.7	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 700	92.1	98.1	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 600	92.2	98.5	98.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 500	92.2	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	92.2	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	92.2	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	92.2	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	92.2	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	92.2	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION
PORTLAND IAP OR

STATION NAME

YEARS
75-79

MONTH
JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1300-2500
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	48.4	49.5	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 20000	51.7	51.8	51.8	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 18000	51.9	51.9	51.9	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 16000	51.2	52.2	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
IV 14000	52.7	53.9	53.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 12000	53.0	55.0	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
IV 10000	55.1	56.2	56.2	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 9000	55.8	57.1	57.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
IV 8000	56.4	57.8	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 7000	57.6	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
IV 6000	59.8	61.1	61.1	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
IV 5000	63.7	65.1	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 4500	68.7	70.0	70.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
IV 4000	74.5	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
IV 3500	78.2	80.0	80.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
IV 3000	83.4	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
IV 2500	85.9	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
IV 2000	88.3	91.4	91.4	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
IV 1800	89.2	92.6	92.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
IV 1500	91.6	94.6	94.6	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 1200	91.2	95.2	95.4	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
IV 1000	91.7	96.8	96.9	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IV 900	92.1	97.4	97.5	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 800	92.1	97.7	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 700	92.0	98.1	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 600	92.2	98.5	98.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 500	92.2	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	92.4	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	92.2	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	92.2	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	92.2	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	92.2	98.6	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

2029
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1900-1100
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	41.9	45.8	46.5	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
≥ 18000	44.1	48.1	48.8	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥ 16000	44.2	48.2	49.1	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 14000	45.3	51.1	51.2	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 12000	46.9	51.6	52.7	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 10000	48.4	53.1	54.2	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 9000	49.2	54.2	55.3	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 8000	49.6	54.7	55.8	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 7000	50.5	55.6	56.7	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 6000	53.0	58.2	59.3	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
≥ 5000	58.8	64.1	65.1	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 4500	59.8	65.1	66.1	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 4000	62.7	67.9	69.1	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 3500	67.0	72.2	73.3	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 3000	71.9	77.9	79.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 2500	76.3	82.5	83.6	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 2000	81.6	88.2	89.2	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1800	82.9	90.2	91.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1500	85.1	93.4	94.5	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1200	86.3	95.7	97.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1000	86.5	96.2	98.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900	86.5	96.2	98.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800	86.5	96.2	98.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700	86.5	96.2	98.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600	86.5	96.2	98.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	86.5	96.2	98.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	86.5	96.2	98.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	86.5	96.2	98.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	86.5	96.2	98.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	86.5	96.2	98.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0	86.5	96.2	98.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 651

USAF ETAC

FORM
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2-229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS LT ST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	56.2	58.2	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 20000	59.2	61.8	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
IV 18000	59.9	61.8	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
IV 16000	59.8	61.8	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
IV 14000	61.1	63.1	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
IV 12000	63.9	66.1	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
IV 10000	65.3	67.4	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
IV 9000	65.6	67.7	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
IV 8000	66.2	68.5	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 7000	67.4	69.7	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
IV 6000	71.6	73.9	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
IV 5000	75.2	78.3	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
IV 4500	78.1	80.5	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
IV 4000	82.3	84.8	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
IV 3500	86.9	89.6	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.5	90.5	90.5	90.5	90.5	90.5
IV 3000	91.8	93.5	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.5	94.5	94.5	94.5	94.5	94.5
IV 2500	92.3	95.1	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0
IV 2000	93.5	96.8	97.5	97.5	97.5	97.5	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8
IV 1800	94.2	97.5	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8
IV 1500	94.5	98.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
IV 1200	94.5	98.2	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	94.5	98.2	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	94.5	98.2	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	94.5	98.2	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	94.5	98.2	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	94.5	98.2	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	94.5	98.2	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	94.5	98.2	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	94.5	98.2	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	94.5	98.2	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	94.5	98.2	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	94.5	98.2	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2429
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	62.1	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 20000	66.7	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 18000	66.8	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
IV 16000	66.8	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 14000	67.6	68.4	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
IV 12000	69.9	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 10000	72.5	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
IV 9000	73.1	73.9	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 8000	75.1	75.7	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
IV 7000	77.6	78.3	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 6000	81.1	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
IV 5000	85.9	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 4500	88.5	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 4000	92.5	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 3500	94.1	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 3000	95.7	96.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 2500	96.2	98.8	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 2000	96.5	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1800	96.5	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 1500	96.5	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1200	96.5	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 1000	96.5	99.2	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	96.5	99.2	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	96.5	99.2	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	96.5	99.2	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	96.5	99.2	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	96.5	99.2	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	96.5	99.2	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	96.5	99.2	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	96.5	99.2	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	96.5	99.2	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	96.5	99.2	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2 22
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2359
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥0	≥0
NO CEILING	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 20000	74.5	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 18000	74.5	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 16000	74.7	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 14000	75.1	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
IV 12000	75.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 10000	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
IV 9000	77.7	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
IV 8000	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 7000	82.8	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 6000	85.7	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
IV 5000	88.5	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 4500	89.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 4000	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
IV 3500	93.5	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 3000	95.5	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 2500	96.6	97.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 2000	97.1	98.6	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 1800	97.1	98.6	98.9	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 1500	97.1	98.8	99.1	99.1	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 1200	97.1	98.8	99.1	99.1	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 1000	97.1	98.8	99.1	99.1	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 900	97.1	98.8	99.1	99.1	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 800	97.1	98.8	99.1	99.1	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 700	97.1	98.8	99.1	99.1	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 600	97.1	98.8	99.1	99.1	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 500	97.1	98.8	99.1	99.1	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 400	97.1	98.8	99.1	99.1	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 300	97.1	98.8	99.1	99.1	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 200	97.1	98.8	99.1	99.1	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 100	97.1	98.8	99.1	99.1	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 0	97.1	98.8	99.1	99.1	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS

651

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION 2 PORTLAND IAP OR STATION NAME 73-79 YEARS JUL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	67.9	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 20000	72.7	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 18000	72.4	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥ 16000	72.4	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥ 14000	73.9	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 12000	74.5	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 10000	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 9000	76.7	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 8000	77.9	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 7000	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 6000	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 5000	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 4500	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 4000	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 3500	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 3000	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 2500	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 2000	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 1800	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1500	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1200	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1000	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

20229 PORTLAND IAP OR

73-79

1111

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	55.4	56.8	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 20000	59.1	60.6	60.8	60.9	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 18000	59.1	60.7	60.9	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 16000	59.2	60.8	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.2	61.2	61.2	61.2	61.2
≥ 14000	61.6	62.1	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 12000	61.6	63.4	63.6	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9	63.9
≥ 10000	63.1	64.9	65.1	65.3	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥ 9000	63.6	65.5	65.8	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 8000	64.7	66.6	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 7000	66.6	68.5	68.8	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 6000	69.4	71.4	71.7	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 5000	73.6	75.6	75.8	76.0	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 4500	76.1	78.1	78.3	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 4000	82.2	82.2	82.5	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 3500	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 3000	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 2500	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 2000	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1800	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1500	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 1200	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 1000	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 900	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 800	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 700	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 600	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 500	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 400	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 300	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 200	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 100	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1

TOTAL NUMBER OF OBSERVATIONS 5207

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1000-0200
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	56.4	58.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 20000	58.8	61.6	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 18000	59.4	61.6	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 16000	60.4	62.2	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 14000	61.4	62.2	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 12000	62.2	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 10000	63.4	65.7	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 9000	64.4	66.7	66.8	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥ 8000	64.5	66.8	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 7000	66.4	68.7	68.8	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 6000	67.7	72.0	71.2	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 5000	72.1	74.5	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4500	75.1	77.4	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 4000	79.3	82.2	82.3	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 3500	82.5	85.7	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 3000	84.9	89.4	89.7	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 2500	85.9	90.9	91.4	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 2000	86.9	92.6	93.2	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1800	87.3	93.1	93.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1600	88.2	94.6	95.7	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1200	89.1	95.7	96.9	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1000	89.2	96.1	97.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 900	89.2	96.2	97.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800	89.2	96.3	98.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	89.2	96.6	98.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600	89.2	96.6	98.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	89.2	96.6	98.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	89.2	96.6	98.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	89.2	96.6	98.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	89.2	96.6	98.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	89.2	96.6	98.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	89.2	96.6	98.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1300-1500
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥10	≥6	≥5	≥4	≥3	≥2 1/2	≥2	≥1 1/2	≥1 1/4	≥1	≥3/4	≥1/2	≥1/4	≥5/16	≥1/8
NO CEILING	42.4	44.7	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 20000	44.7	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
≥ 18000	44.7	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
≥ 16000	44.7	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
≥ 14000	45.3	47.6	47.6	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
≥ 12000	46.9	49.5	49.8	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
≥ 10000	48.4	51.0	51.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 9000	48.5	51.2	51.5	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥ 8000	49.0	51.6	51.9	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 7000	50.8	53.3	53.8	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
≥ 6000	54.1	56.8	57.1	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥ 5000	57.5	61.2	61.5	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 4500	61.2	63.3	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 4000	64.6	68.2	68.5	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 3500	69.0	72.7	73.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 3000	73.0	77.9	78.2	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 2500	74.2	79.4	79.7	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 2000	77.3	83.6	84.1	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1800	77.7	84.5	84.9	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 1500	79.3	87.1	87.6	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 1200	81.1	89.9	90.4	91.4	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 1000	82.5	92.3	93.1	94.3	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 900	82.9	92.8	93.5	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 800	83.1	93.4	94.9	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 700	83.3	93.7	95.9	97.2	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 600	83.3	93.7	95.9	97.2	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 500	83.3	94.3	96.8	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400	83.3	94.3	96.8	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 300	83.3	94.3	96.8	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 200	83.3	94.3	96.8	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 100	83.3	94.3	96.8	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 0	83.3	94.3	96.8	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2022
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	22.3	28.1	28.6	29.3	29.0	29.0	29.0	29.3	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥ 20000	24.1	31.4	31.2	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
≥ 18000	24.3	31.9	31.6	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
≥ 16000	24.6	31.9	31.6	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
≥ 14000	25.1	32.4	33.2	33.6	33.6	33.6	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
≥ 12000	26.9	34.3	35.2	35.6	36.1	36.1	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
≥ 10000	27.5	34.9	35.8	36.3	36.7	36.7	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
≥ 9000	27.5	34.9	35.8	36.3	36.7	36.7	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
≥ 8000	28.0	35.3	36.3	36.7	37.2	37.2	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
≥ 7000	29.3	37.0	38.1	38.6	39.0	39.0	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
≥ 6000	32.3	39.6	40.7	41.3	41.8	41.8	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
≥ 5000	37.2	45.2	46.2	46.9	47.3	47.3	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
≥ 4500	38.9	47.0	48.1	48.7	49.2	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 4000	42.4	50.7	51.8	52.4	52.8	52.8	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥ 3500	46.9	54.8	55.9	56.5	57.0	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 3000	50.2	59.3	61.5	61.1	61.6	61.8	61.9	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 2500	53.1	62.4	63.6	64.7	65.1	65.3	65.4	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 2000	57.1	67.1	68.4	69.7	70.2	70.4	70.5	70.7	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 1800	57.6	68.0	69.3	70.7	71.4	71.6	71.7	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 1500	59.6	72.0	73.3	74.8	75.6	75.7	76.0	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 1200	63.1	76.8	81.2	81.7	82.5	82.8	83.1	83.3	83.3	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 1000	65.0	82.6	84.6	86.5	87.7	88.2	88.5	88.6	88.6	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 900	65.4	83.4	86.2	88.2	89.4	89.9	90.2	90.3	90.3	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 800	65.4	84.0	87.7	91.2	91.4	91.9	92.2	92.3	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 700	65.6	84.8	89.4	92.2	93.4	93.9	94.3	94.5	94.5	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 600	65.6	85.3	90.0	93.4	94.8	95.2	95.7	95.9	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 500	65.6	85.4	90.2	93.5	95.2	95.7	96.5	96.8	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 400	65.6	85.4	90.3	93.7	95.4	95.9	96.9	97.8	98.1	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 300	65.6	85.4	90.3	93.7	95.5	96.0	97.2	98.3	98.5	99.2	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	65.6	85.4	91.3	93.7	95.5	96.0	97.2	98.5	98.6	99.5	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	65.6	85.4	91.3	93.7	95.5	96.0	97.2	98.5	98.6	99.5	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	65.6	85.4	91.3	93.7	95.5	96.0	97.2	98.5	98.6	99.5	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2427
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1900-1900
HOURS (IST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	39.8	38.2	39.9	43.4	43.4	40.4	42.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
IV 18000	31.9	39.5	41.2	41.6	41.6	41.6	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
IV 16000	31.9	39.5	41.2	41.6	41.6	41.6	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
IV 14000	31.9	40.2	42.1	42.5	42.5	42.5	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
IV 12000	32.4	41.9	43.9	44.2	44.2	44.2	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
IV 10000	33.5	43.0	44.9	45.3	45.3	45.3	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
IV 9000	33.6	43.5	45.3	45.8	45.8	45.8	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
IV 8000	34.3	44.1	45.9	46.4	46.4	46.4	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
IV 7000	35.3	45.2	47.0	47.5	47.5	47.5	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
IV 6000	37.1	47.2	49.0	49.5	49.5	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IV 5000	37.1	50.2	52.1	52.5	52.5	52.5	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
IV 4500	43.1	53.1	55.0	55.5	55.5	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
IV 4000	48.8	59.1	61.0	61.4	61.4	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IV 3500	52.7	63.4	65.3	65.7	65.7	65.7	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
IV 3000	57.5	68.8	71.8	71.3	71.3	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 2500	61.9	75.1	77.1	77.6	77.6	77.6	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
IV 2000	65.6	79.9	81.9	82.3	82.5	82.5	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
IV 1800	67.1	82.0	84.3	84.8	84.9	85.1	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
IV 1500	71.0	87.3	90.0	90.6	90.8	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
IV 1200	72.4	91.1	94.9	95.9	96.0	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 1000	72.4	91.9	95.9	97.2	97.4	97.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 900	72.4	92.0	96.5	97.8	98.2	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 800	72.4	92.0	96.6	98.2	98.5	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 700	72.4	92.0	96.6	98.2	98.5	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 600	72.4	92.2	96.8	98.3	98.6	99.1	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 500	72.4	92.2	96.8	98.3	98.6	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	72.4	92.2	96.8	98.3	98.6	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	72.4	92.2	96.8	98.3	98.6	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	72.4	92.2	96.8	98.3	98.6	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	72.4	92.2	96.8	98.3	98.6	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	72.4	92.2	96.8	98.3	98.6	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

20229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400
HOURS U.S.T.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	51.3	55.3	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
≥ 20000	53.1	57.3	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥ 18000	53.5	57.6	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
≥ 16000	53.6	57.8	57.9	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 14000	55.1	59.3	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 12000	56.8	60.7	60.8	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 10000	58.4	62.8	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 9000	59.1	63.6	63.7	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 8000	61.7	65.4	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 7000	62.2	67.3	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 6000	63.3	68.4	68.5	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 5000	66.4	71.4	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 4500	69.1	74.3	74.5	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 4000	74.3	81.1	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3500	77.7	84.1	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 3000	81.6	88.0	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 2500	85.1	92.9	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 2000	87.1	96.0	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1800	87.7	97.1	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1500	88.1	98.0	98.2	98.6	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1200	88.1	98.3	98.5	99.1	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	88.1	98.3	98.5	99.2	99.2	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900	88.1	98.3	98.5	99.2	99.2	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	88.2	98.5	98.6	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700	88.2	98.5	98.6	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600	88.2	98.5	98.6	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	88.2	98.5	98.6	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	88.2	98.5	98.6	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	88.2	98.5	98.6	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	88.2	98.5	98.6	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	88.2	98.5	98.6	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0	88.2	98.5	98.6	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

21229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	59.3	60.7	61.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
≥ 20000	61.8	63.1	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 18000	61.8	63.1	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 16000	61.8	63.1	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 14000	62.4	63.7	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 12000	64.8	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 10000	67.3	68.8	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 9000	67.6	69.7	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 8000	69.3	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 7000	71.0	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 6000	74.7	77.1	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 5000	78.3	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 4500	79.9	82.8	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 4000	83.9	87.7	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 3500	85.9	89.9	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 3000	87.9	92.8	92.9	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 2500	89.2	95.4	95.5	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 2000	90.5	97.2	97.4	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1800	90.6	97.4	97.5	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1500	90.6	97.6	98.0	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1200	90.9	98.2	98.3	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1000	90.9	98.5	98.6	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 900	90.9	98.5	98.6	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 800	90.9	98.5	98.6	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700	90.9	98.5	98.6	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	90.9	98.5	98.6	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500	90.9	98.5	98.6	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	90.9	98.5	98.6	99.1	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	90.9	98.5	98.6	99.1	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	90.9	98.5	98.6	99.1	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	90.9	98.5	98.6	99.1	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	90.9	98.5	98.6	99.1	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2.24
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2000
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	61.6	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 20000	63.6	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 18000	63.6	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 16000	63.7	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥ 14000	64.4	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 12000	65.9	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 10000	68.7	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 9000	69.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 8000	70.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥ 7000	72.5	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 6000	77.1	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 5000	81.5	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 4500	82.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 4000	86.3	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 3500	87.9	91.2	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 3000	90.2	94.3	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 2500	91.2	95.9	96.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 2000	91.2	96.6	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1800	91.2	96.9	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1500	91.2	97.1	97.4	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 1200	91.4	97.5	97.8	98.3	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1000	91.4	97.8	98.2	98.6	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 900	91.4	97.8	98.2	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 800	91.6	98.1	98.3	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	91.6	98.1	98.3	99.2	99.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600	91.6	98.1	98.3	99.2	99.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	91.6	98.1	98.3	99.2	99.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	91.6	98.1	98.3	99.2	99.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	91.6	98.1	98.3	99.2	99.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	91.6	98.1	98.3	99.2	99.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	91.6	98.1	98.3	99.2	99.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0	91.6	98.1	98.3	99.2	99.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS

651

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
ATC WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2-229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	63.1	64.7	65.1	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥20000	64.2	65.9	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥18000	64.4	66.1	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥16000	64.4	66.1	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥14000	65.0	66.7	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥12000	66.7	68.5	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥10000	68.5	70.4	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥9000	69.4	71.4	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥8000	69.9	72.0	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥7000	70.4	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥6000	73.9	76.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥5000	77.6	80.0	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥4500	81.2	82.9	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥4000	85.4	88.6	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥3500	87.6	91.2	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥3000	90.0	94.3	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥2500	90.2	95.1	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥2000	90.6	96.6	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥1800	90.8	96.9	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥1500	90.9	97.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥1200	90.9	97.5	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥1000	90.9	97.7	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥900	90.9	97.7	98.8	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥800	90.9	97.7	98.8	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥700	90.9	97.7	98.8	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥600	90.9	97.7	98.8	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥500	90.9	97.8	98.9	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥400	90.9	97.8	98.9	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥300	90.9	97.8	98.9	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥200	90.9	97.8	98.9	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100	90.9	97.8	98.9	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0	90.9	97.8	98.9	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

ALL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL HOURS (EST.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	48.2	51.5	51.9	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
≥ 20000	51.1	53.7	54.1	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥ 18000	51.3	53.9	54.3	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 16000	51.4	53.9	54.4	54.5	54.5	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
≥ 14000	51.2	54.8	55.2	55.4	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 12000	52.8	56.7	57.1	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 10000	54.4	58.4	58.9	59.1	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
≥ 9000	54.9	59.7	59.5	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
≥ 8000	55.8	60.0	60.4	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 7000	57.4	61.7	62.2	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 6000	60.0	64.3	64.8	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 5000	63.7	68.2	68.7	68.9	68.9	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 4500	66.1	70.8	71.3	71.5	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 4000	71.7	75.7	76.2	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 3500	73.7	79.1	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3000	76.9	83.1	83.7	84.0	84.1	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 2500	77.8	85.9	86.6	87.1	87.2	87.2	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 2000	81.8	88.7	89.5	89.9	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1800	81.2	89.5	90.3	90.8	90.9	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 1500	82.3	91.4	92.3	92.9	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1200	83.4	93.4	94.5	95.2	95.4	95.5	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1000	83.6	94.4	95.6	96.6	96.8	96.9	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 900	83.9	94.6	96.0	97.0	97.3	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 800	84.0	94.8	96.4	97.6	97.9	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 700	84.0	95.0	96.8	98.1	98.4	98.6	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 600	84.1	95.1	96.9	98.2	98.6	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 500	84.0	95.2	97.1	98.3	98.8	99.1	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	84.3	95.2	97.1	98.5	98.9	99.1	99.5	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	84.0	95.2	97.1	98.5	98.9	99.1	99.5	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	84.1	95.2	97.1	98.5	98.9	99.1	99.5	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	84.0	95.2	97.1	98.5	98.9	99.1	99.5	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0	84.0	95.2	97.1	98.5	98.9	99.1	99.5	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 5228

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING	56.3	61.3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.7	61.7	61.7
≥ 20000	58.1	62.2	62.7	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.7	63.7	63.7
≥ 18000	58.3	62.4	62.9	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.8
≥ 16000	58.3	62.4	62.9	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.8
≥ 14000	58.7	62.9	63.3	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.3	64.3	64.3
≥ 12000	60.3	64.4	64.9	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.9	65.9	65.9	66.0	66.0	66.0
≥ 10000	61.3	65.6	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	67.0	67.0	67.0	67.1	67.1	67.1
≥ 9000	61.7	66.2	66.7	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.6	67.6	67.6	67.8	67.8	67.8
IV 8000	63.5	67.8	68.3	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.2	69.2	69.2	69.4	69.4	69.4
IV 7000	66.7	70.5	71.0	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.9	71.9	71.9	72.1	72.1	72.1
IV 6000	69.2	73.7	74.1	74.9	74.9	74.9	74.9	74.9	74.9	74.9	75.1	75.1	75.1	75.2	75.2	75.2
IV 5000	73.1	77.6	78.1	78.9	78.9	78.9	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.2	79.2	79.2
IV 4500	74.3	78.9	79.4	80.2	80.2	80.2	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.5	80.5	80.5
IV 4000	77.3	81.9	82.4	83.2	83.2	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.5	83.5	83.5
IV 3500	80.6	85.6	86.1	87.0	87.0	87.0	87.0	87.0	87.0	87.1	87.1	87.1	87.1	87.3	87.3	87.3
IV 3000	82.4	88.3	89.4	90.3	90.3	90.3	90.3	90.3	90.3	90.5	90.5	90.5	90.5	90.6	90.6	90.6
IV 2500	83.8	90.3	91.4	92.7	92.7	92.7	92.7	92.7	92.7	92.9	92.9	92.9	92.9	93.0	93.0	93.0
IV 2000	84.0	91.6	92.9	94.1	94.1	94.1	94.1	94.1	94.1	94.3	94.3	94.3	94.3	94.4	94.4	94.4
IV 1800	85.1	92.7	94.0	95.2	95.2	95.2	95.2	95.2	95.2	95.4	95.4	95.4	95.4	95.6	95.6	95.6
IV 1500	85.4	93.5	95.2	96.5	96.5	96.5	96.5	96.5	96.5	96.7	96.7	96.7	96.7	96.8	96.8	96.8
IV 1200	85.6	94.3	96.3	97.6	97.6	97.6	97.6	97.6	97.6	97.8	97.8	97.8	97.8	97.9	97.9	97.9
IV 1000	85.6	94.4	96.7	97.9	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1	98.1	98.3	98.3	98.4
IV 900	85.6	94.4	96.7	97.9	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1	98.1	98.3	98.3	98.4
IV 800	85.6	94.4	96.7	97.9	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1	98.1	98.3	98.3	98.4
IV 700	85.6	94.4	97.1	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.6	98.6	98.7
IV 600	85.6	94.8	97.1	98.3	98.4	98.4	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.7	98.7	98.9
IV 500	85.7	94.9	97.5	98.9	99.0	99.0	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.4	99.4	99.5
IV 400	85.7	94.9	97.5	98.9	99.0	99.0	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.4	99.4	99.5
IV 300	85.7	94.9	97.5	98.9	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.7	99.7	99.8
IV 200	85.7	94.9	97.5	98.9	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.7	99.7	99.8
IV 100	85.7	94.9	97.5	98.9	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.8	99.8	99.8
IV 0	85.7	94.9	97.5	98.9	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 674

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2162Y
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1730-0500
HOURS (GMT)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥0
NO CEILING	12.5	46.8	48.6	49.4	49.4	49.4	49.5	49.5	49.8	50.0	50.0	50.0	50.3	50.3	50.3	50.5
≥ 20000	43.3	47.6	49.4	50.2	50.2	50.2	50.5	50.5	50.8	51.0	51.0	51.0	51.3	51.3	51.4	51.6
≥ 18000	13.3	47.6	49.4	50.2	50.2	50.2	50.5	50.5	50.8	51.0	51.0	51.0	51.3	51.3	51.4	51.6
≥ 16000	43.3	47.6	49.4	50.2	50.2	50.2	50.5	50.5	50.8	51.0	51.0	51.0	51.3	51.3	51.4	51.6
≥ 14000	44.3	48.6	50.3	51.1	51.1	51.1	51.4	51.4	51.7	51.9	51.9	51.9	52.2	52.2	52.4	52.5
≥ 12000	44.8	49.0	50.3	51.6	51.6	51.6	51.9	51.9	52.2	52.4	52.4	52.4	52.7	52.7	52.9	53.0
≥ 10000	46.8	51.3	53.0	53.8	53.8	53.8	54.1	54.1	54.4	54.6	54.6	54.6	54.9	54.9	55.1	55.2
≥ 9000	47.6	52.2	54.1	54.9	54.9	54.9	55.2	55.2	55.6	55.7	55.7	55.7	56.1	56.1	56.2	56.3
≥ 8000	48.6	52.7	54.6	55.4	55.4	55.4	55.7	55.7	56.1	56.2	56.2	56.2	56.5	56.5	56.7	56.8
≥ 7000	49.4	53.6	55.5	56.3	56.3	56.3	56.6	56.6	56.9	57.0	57.0	57.0	57.4	57.4	57.5	57.7
≥ 6000	50.3	54.5	56.4	57.2	57.2	57.2	57.5	57.5	57.8	58.0	58.0	58.0	58.4	58.4	58.5	58.7
≥ 5000	51.1	55.4	57.3	58.1	58.1	58.1	58.4	58.4	58.7	58.9	58.9	58.9	59.3	59.3	59.4	59.7
≥ 4500	52.0	56.3	58.2	59.0	59.0	59.0	59.3	59.3	59.6	59.8	59.8	59.8	60.2	60.2	60.3	60.5
≥ 4000	52.9	57.2	59.1	59.9	59.9	59.9	60.2	60.2	60.5	60.7	60.7	60.7	61.1	61.1	61.2	61.4
≥ 3500	53.8	58.1	60.0	60.8	60.8	60.8	61.1	61.1	61.4	61.6	61.6	61.6	62.0	62.0	62.1	62.3
≥ 3000	54.7	59.0	60.9	61.7	61.7	61.7	62.0	62.0	62.3	62.5	62.5	62.5	62.9	62.9	63.0	63.2
≥ 2500	55.6	60.0	61.9	62.7	62.7	62.7	63.0	63.0	63.3	63.5	63.5	63.5	63.9	63.9	64.0	64.2
≥ 2000	56.5	60.9	62.8	63.6	63.6	63.6	63.9	63.9	64.2	64.4	64.4	64.4	64.8	64.8	64.9	65.1
≥ 1800	57.4	61.8	63.7	64.5	64.5	64.5	64.8	64.8	65.1	65.3	65.3	65.3	65.7	65.7	65.8	66.0
≥ 1500	58.3	62.7	64.6	65.4	65.4	65.4	65.7	65.7	66.0	66.2	66.2	66.2	66.6	66.6	66.7	66.9
≥ 1200	59.2	63.6	65.5	66.3	66.3	66.3	66.6	66.6	66.9	67.1	67.1	67.1	67.5	67.5	67.6	67.8
≥ 1000	60.1	64.5	66.4	67.2	67.2	67.2	67.5	67.5	67.8	68.0	68.0	68.0	68.4	68.4	68.5	68.7
≥ 900	61.0	65.4	67.3	68.1	68.1	68.1	68.4	68.4	68.7	68.9	68.9	68.9	69.3	69.3	69.4	69.6
≥ 800	61.9	66.3	68.2	69.0	69.0	69.0	69.3	69.3	69.6	69.8	69.8	69.8	70.2	70.2	70.3	70.5
≥ 700	62.8	67.2	69.1	69.9	69.9	69.9	70.2	70.2	70.5	70.7	70.7	70.7	71.1	71.1	71.2	71.4
≥ 600	63.7	68.1	70.0	70.8	70.8	70.8	71.1	71.1	71.4	71.6	71.6	71.6	72.0	72.0	72.1	72.3
≥ 500	64.6	69.0	70.9	71.7	71.7	71.7	72.0	72.0	72.3	72.5	72.5	72.5	72.9	72.9	73.0	73.2
≥ 400	65.5	69.9	71.8	72.6	72.6	72.6	72.9	72.9	73.2	73.4	73.4	73.4	73.8	73.8	73.9	74.1
≥ 300	66.4	70.8	72.7	73.5	73.5	73.5	73.8	73.8	74.1	74.3	74.3	74.3	74.7	74.7	74.8	75.0
≥ 200	67.3	71.7	73.6	74.4	74.4	74.4	74.7	74.7	75.0	75.2	75.2	75.2	75.6	75.6	75.7	75.9
≥ 100	68.2	72.6	74.5	75.3	75.3	75.3	75.6	75.6	75.9	76.1	76.1	76.1	76.5	76.5	76.6	76.8
≥ 0	69.1	73.5	75.4	76.2	76.2	76.2	76.5	76.5	76.8	77.0	77.0	77.0	77.4	77.4	77.5	77.7

TOTAL NUMBER OF OBSERVATIONS 6311

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

21229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

SEP

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1600-1700
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥¾	≥¾	≥5/16	≥¼	≥0
NO CEILING	27.6	35.9	38.3	38.6	39.0	39.0	39.2	39.2	39.2	39.2	39.4	39.4	39.7	39.7	39.8	40.2
≥ 20000	27.8	37.1	39.7	40.0	40.5	41.0	41.0	41.0	41.0	41.0	41.1	41.1	41.6	41.6	41.7	42.2
≥ 18000	27.8	37.1	39.7	40.0	40.5	41.0	41.0	41.0	41.0	41.0	41.1	41.1	41.6	41.6	41.7	42.2
IV 16000	27.8	37.1	39.7	40.0	40.5	41.0	41.0	41.0	41.0	41.0	41.1	41.1	41.6	41.6	41.7	42.2
IV 14000	28.4	37.9	41.9	41.8	41.3	41.3	41.7	41.7	41.7	41.7	41.9	41.9	42.4	42.4	42.5	43.0
IV 12000	28.9	38.4	41.1	41.3	41.7	41.7	42.2	42.2	42.2	42.2	42.4	42.4	42.9	42.9	43.0	43.5
IV 10000	30.2	40.0	42.5	42.9	43.3	43.3	43.8	43.8	43.8	43.8	44.1	44.1	44.4	44.4	44.6	45.1
IV 9000	30.6	40.5	43.0	43.3	43.8	43.8	44.3	44.3	44.3	44.3	44.4	44.4	44.9	44.9	45.1	45.6
IV 8000	31.0	41.0	43.5	43.8	44.3	44.3	44.8	44.8	44.8	44.8	44.9	44.9	45.4	45.4	45.6	46.0
IV 7000	33.1	43.1	45.6	45.9	46.3	46.3	46.8	46.8	46.8	46.8	47.1	47.1	47.5	47.5	47.6	48.1
IV 6000	35.4	45.4	47.9	48.3	48.7	48.7	49.2	49.2	49.2	49.2	49.4	49.4	49.8	49.8	50.0	50.5
IV 5000	40.3	50.5	53.1	53.3	53.8	53.8	54.3	54.3	54.3	54.3	54.4	54.4	54.9	54.9	55.1	55.6
IV 4500	42.2	52.5	55.2	55.6	56.2	56.2	56.7	56.7	56.7	56.7	56.8	56.8	57.3	57.3	57.5	57.9
IV 4000	47.5	58.9	61.7	62.1	62.7	62.7	63.2	63.2	63.2	63.2	63.3	63.3	63.8	63.8	64.0	64.4
IV 3500	49.1	61.1	64.0	64.3	64.9	64.9	65.4	65.4	65.4	65.4	65.6	65.6	66.0	66.0	66.2	66.7
IV 3000	51.1	64.6	67.8	68.1	68.7	68.9	69.4	69.4	69.4	69.4	69.5	69.5	70.0	70.0	70.2	70.6
IV 2500	53.5	67.3	71.6	71.0	71.6	71.7	72.2	72.2	72.2	72.2	72.4	72.4	72.9	72.9	73.0	73.5
IV 2000	55.2	71.2	73.5	73.8	74.4	74.6	75.1	75.1	75.1	75.1	75.2	75.2	75.7	75.7	75.9	76.3
IV 1800	55.4	71.8	74.1	74.4	75.1	75.2	75.7	75.7	75.7	75.7	75.9	75.9	76.3	76.3	76.5	77.0
IV 1500	55.7	72.5	75.9	76.2	76.8	77.1	77.5	77.5	77.5	77.6	77.9	77.8	78.3	78.3	78.4	78.9
IV 1200	57.5	75.2	78.7	79.5	81.2	81.3	81.1	81.1	81.1	81.3	81.4	81.4	81.9	81.9	82.1	82.5
IV 1000	58.3	77.1	80.6	81.9	82.5	82.9	84.0	84.0	84.0	84.1	84.3	84.3	84.8	84.8	84.9	85.4
IV 900	58.4	77.3	81.0	82.5	83.5	84.1	85.2	85.2	85.2	85.4	85.7	85.7	86.2	86.2	86.3	86.8
IV 800	58.9	77.8	81.6	83.5	84.6	85.2	86.8	86.8	86.8	87.1	87.3	87.3	87.8	87.8	87.9	88.4
IV 700	58.9	77.9	82.1	84.4	85.7	86.5	88.4	88.4	88.4	88.7	89.1	89.0	89.5	89.5	89.7	90.2
IV 600	58.9	78.1	82.4	84.9	86.5	87.3	89.4	89.5	89.5	89.8	90.3	90.3	90.8	90.8	91.0	91.4
IV 500	59.1	78.3	82.7	85.7	87.5	88.3	90.8	91.0	91.0	91.3	91.7	91.7	92.4	92.4	92.5	93.0
IV 400	59.1	78.3	82.7	85.9	88.1	89.2	92.7	92.9	92.9	93.3	94.0	94.0	94.8	94.8	95.1	95.6
IV 300	59.1	78.3	82.9	86.2	88.4	89.7	93.3	94.0	94.1	94.6	95.4	95.4	96.3	96.3	96.7	97.1
IV 200	59.1	78.4	83.1	86.3	88.6	89.8	94.1	94.6	94.8	95.7	96.5	96.5	97.3	97.3	98.3	98.9
IV 100	59.0	78.4	83.1	86.3	88.6	89.8	94.1	94.6	94.8	95.9	96.7	96.7	97.6	97.6	98.4	99.5
IV 0	59.0	78.4	83.1	86.3	88.6	89.8	94.1	94.6	94.8	95.9	96.7	96.7	97.6	97.6	98.4	99.5

TOTAL NUMBER OF OBSERVATIONS 631

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

24229
STATION

FORTLAND TAP OR
STATION NAME

73-79
YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1970-1170
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	35.9	45.1	47.7	48.8	49.3	49.4	49.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 20000	38.6	48.1	50.9	52.3	52.6	52.8	52.9	53.1	53.1	53.1	53.3	53.3	53.3	53.3	53.3	53.3
≥ 18000	38.6	48.1	51.9	52.3	52.6	52.8	52.9	53.1	53.1	53.1	53.3	53.3	53.3	53.3	53.3	53.3
≥ 16000	38.6	48.1	50.9	52.3	52.6	52.8	52.9	53.1	53.1	53.1	53.3	53.3	53.3	53.3	53.3	53.3
≥ 14000	39.6	49.4	52.3	53.4	54.1	54.2	54.4	54.5	54.5	54.5	54.7	54.7	54.7	54.7	54.7	54.7
≥ 12000	40.1	49.9	52.8	53.9	54.5	54.7	55.2	55.2	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3
≥ 10000	41.2	51.0	53.9	55.0	55.8	56.0	56.3	56.4	56.4	56.4	56.6	56.6	56.6	56.6	56.6	56.6
≥ 9000	41.2	51.0	53.9	55.0	55.8	56.0	56.3	56.4	56.4	56.4	56.6	56.6	56.6	56.6	56.6	56.6
≥ 8000	42.0	52.1	55.0	56.1	56.9	57.1	57.4	57.6	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7
≥ 7000	43.7	53.9	56.8	57.9	58.7	58.8	59.1	59.3	59.3	59.3	59.5	59.5	59.5	59.5	59.5	59.5
≥ 6000	47.2	57.4	60.3	61.4	62.2	62.3	62.6	62.8	62.8	62.8	63.0	63.0	63.0	63.0	63.0	63.0
≥ 5000	5.6	61.1	63.9	65.0	65.8	66.0	66.3	66.5	66.5	66.5	66.6	66.6	66.6	66.6	66.6	66.6
≥ 4500	52.5	63.3	66.1	67.2	68.0	68.2	68.5	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8
≥ 4000	54.8	66.8	69.8	70.9	71.7	71.9	72.2	72.3	72.3	72.3	72.5	72.5	72.5	72.5	72.5	72.5
≥ 3500	56.1	68.4	71.4	72.5	73.3	73.4	73.8	73.9	73.9	73.9	74.1	74.1	74.1	74.1	74.1	74.1
≥ 3000	58.3	71.1	74.4	75.7	76.5	76.6	76.9	77.1	77.1	77.1	77.3	77.3	77.3	77.3	77.3	77.3
≥ 2500	60.9	74.4	77.7	79.3	80.1	80.3	80.9	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2
≥ 2000	64.4	78.7	82.0	83.6	84.6	84.7	85.4	85.5	85.5	85.5	85.7	85.7	85.7	85.7	85.7	85.7
≥ 1800	65.0	79.5	82.8	84.4	85.4	85.5	86.2	86.3	86.3	86.3	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1500	66.6	82.4	86.2	87.8	88.7	88.9	89.7	89.8	89.8	89.8	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1200	66.9	83.9	88.7	90.8	91.9	92.1	93.0	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1000	67.6	85.5	91.6	93.3	94.4	94.6	95.7	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0
≥ 900	67.6	85.5	91.6	94.1	95.4	95.5	96.7	96.8	96.8	96.8	97.0	97.0	97.0	97.0	97.0	97.0
≥ 800	67.6	85.5	91.6	94.8	96.3	96.5	97.6	97.9	97.9	97.9	98.1	98.1	98.1	98.1	98.1	98.1
≥ 700	67.6	85.7	91.9	95.1	96.8	97.1	98.1	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6
≥ 600	67.6	85.9	91.1	95.2	97.1	97.3	98.4	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9
≥ 500	67.6	85.9	91.1	95.2	97.1	97.3	98.4	98.7	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9
≥ 400	67.6	85.9	91.1	95.2	97.1	97.3	98.6	99.1	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	67.6	85.9	91.1	95.2	97.1	97.3	98.7	99.2	99.2	99.2	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	67.6	85.9	91.1	95.2	97.1	97.3	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0
≥ 100	67.6	85.9	91.1	95.2	97.1	97.3	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0
≥ 0	67.6	85.9	91.1	95.2	97.1	97.3	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 627

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION
PORTLAND IAP OR

STATION NAME

YEARS
73-79

MONTH
SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	49.8	57.1	57.9	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥ 20000	52.1	61.1	61.9	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 18000	52.1	61.1	61.9	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 16000	52.1	61.1	60.9	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 14000	53.1	61.4	62.2	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
≥ 12000	53.7	62.0	62.8	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 10000	55.3	63.8	64.5	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 9000	55.8	64.2	65.1	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 8000	56.1	64.5	65.3	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 7000	58.9	67.2	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 6000	61.4	71.3	71.7	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 5000	66.9	76.1	76.9	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 4500	69.5	78.9	81.7	81.6	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 4000	72.7	82.5	83.6	84.3	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 3500	76.8	86.8	87.9	88.6	88.9	88.9	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 3000	80.0	90.3	91.4	92.2	92.5	92.5	92.5	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 2500	82.5	93.0	94.1	95.1	95.4	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 2000	84.9	95.4	96.7	97.6	97.9	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1800	84.9	95.4	96.7	97.6	98.1	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1500	85.1	95.9	97.1	98.3	98.7	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1200	85.2	96.1	97.5	98.6	99.0	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000	85.4	96.2	97.6	98.7	99.2	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 900	85.4	96.2	97.6	98.7	99.2	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	85.4	96.2	97.6	98.7	99.2	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	85.4	96.2	97.6	98.7	99.2	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	85.4	96.2	97.6	98.7	99.2	99.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	85.4	96.2	97.6	98.7	99.2	99.4	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	85.4	96.2	97.6	98.7	99.2	99.4	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	85.4	96.2	97.6	98.7	99.2	99.4	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	85.4	96.2	97.6	98.7	99.2	99.4	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	85.4	96.2	97.6	98.7	99.2	99.4	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	85.4	96.2	97.6	98.7	99.2	99.4	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 629

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2-29
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥8	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING	56.4	61.9	61.9	60.9	61.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
≥ 20000	61.4	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥ 18000	61.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 16000	61.2	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 14000	61.8	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 12000	63.4	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 10000	64.5	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
≥ 9000	66.3	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 8000	67.7	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 7000	70.6	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 6000	74.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 5000	79.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 4500	81.5	86.8	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 4000	84.1	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 3500	86.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 3000	88.9	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 2500	89.8	97.3	97.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 2000	90.6	98.0	98.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1800	91.6	98.6	98.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1500	91.6	98.6	98.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1200	91.6	98.6	98.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1000	91.9	98.6	98.9	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	91.9	98.6	98.9	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	91.9	98.6	98.9	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	91.9	98.6	98.9	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	91.9	98.6	98.9	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	91.9	98.6	98.9	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	91.9	98.6	98.9	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	91.9	98.6	98.9	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	91.9	98.6	98.9	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	91.9	98.6	98.9	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	91.9	98.6	98.9	99.8	99.8	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

629

USAF ETAC

FORM
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AT: WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

2022
STATION

FORTLAND IAP OR
STATION NAME

73-79
YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-2100
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	59.4	61.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 20000	64.2	65.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
IVN 18000	64.3	65.9	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
IVN 16000	64.3	65.9	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
IVN 14000	64.8	66.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IVN 12000	65.6	67.3	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IVN 10000	66.5	68.3	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IVN 9000	67.1	69.2	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
IVN 8000	68.9	71.1	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
IVN 7000	71.9	74.3	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IVN 6000	76.3	78.7	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
IVN 5000	81.9	84.4	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IVN 4500	84.7	86.7	87.1	87.1	87.1	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
IVN 4000	86.8	89.6	90.3	90.3	90.3	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
IVN 3500	91.1	91.6	92.1	92.4	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
IVN 3000	91.1	95.0	96.7	97.3	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IVN 2500	91.9	97.1	98.1	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IVN 2000	92.1	97.3	98.4	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IVN 1800	92.1	97.3	98.4	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IVN 1500	92.1	97.3	98.4	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IVN 1200	92.1	97.3	98.4	99.0	99.4	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
IVN 1000	92.1	97.3	98.4	99.0	99.4	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
IVN 900	92.1	97.3	98.4	99.0	99.4	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
IVN 800	92.1	97.3	98.4	99.0	99.4	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
IVN 700	92.1	97.3	98.4	99.0	99.4	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
IVN 600	92.1	97.3	98.4	99.0	99.4	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
IVN 500	92.1	97.3	98.4	99.0	99.4	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
IVN 400	92.1	97.3	98.4	99.0	99.4	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
IVN 300	92.1	97.3	98.4	99.0	99.4	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
IVN 200	92.1	97.3	98.4	99.0	99.4	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
IVN 100	92.1	97.3	98.4	99.0	99.4	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
IVN 0	92.1	97.3	98.4	99.0	99.4	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

24
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

SEP

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21.0-23.0
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	62.5	64.7	65.1	65.4	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 20000	64.4	67.1	67.1	67.3	67.1	67.3	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 18000	64.6	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 16000	64.5	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 14000	64.8	67.3	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
≥ 12000	65.9	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 10000	67.3	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 9000	68.1	71.1	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 8000	71.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 7000	72.7	76.2	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 6000	76.8	81.8	81.7	81.3	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 5000	81.3	85.2	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 4500	82.2	86.2	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 4000	85.6	89.7	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 3500	97.1	91.6	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 3000	89.4	95.4	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 2500	90.2	96.2	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 2000	90.6	96.8	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1800	90.0	97.3	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1500	91.0	97.5	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1200	91.1	97.8	98.7	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1000	91.1	97.8	98.7	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900	91.1	97.8	98.7	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800	91.1	97.8	98.7	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700	91.1	97.8	98.7	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600	91.1	97.8	98.7	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	91.1	97.8	98.7	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	91.1	97.8	98.7	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	91.1	97.8	98.9	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	91.1	97.8	98.9	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	91.1	97.8	98.9	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	91.1	97.8	98.9	99.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 630

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

127
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	48.7	54.7	55.7	55.5	55.6	55.6	55.7	55.7	55.7	55.8	55.8	55.8	55.9	55.9	55.9	56.0
≥ 20000	51.1	56.6	57.7	58.1	58.3	58.3	58.4	58.4	58.5	58.5	58.5	58.5	58.7	58.7	58.7	58.8
≥ 18000	51.2	56.7	57.8	58.3	58.4	58.4	58.5	58.6	58.6	58.6	58.7	58.7	58.8	58.8	58.8	58.9
≥ 16000	51.3	56.7	57.9	58.3	58.4	58.5	58.6	58.6	58.6	58.7	58.7	58.7	58.8	58.8	58.9	58.9
≥ 14000	51.9	57.5	58.6	59.1	59.2	59.2	59.4	59.4	59.4	59.4	59.5	59.5	59.6	59.6	59.6	59.7
≥ 12000	52.8	58.4	59.6	60.3	60.2	60.2	60.3	60.3	60.4	60.4	60.5	60.5	60.6	60.6	60.6	60.7
≥ 10000	54.1	59.8	61.9	61.4	61.6	61.6	61.7	61.7	61.8	61.8	61.9	61.9	62.0	62.0	62.0	62.1
≥ 9000	54.3	60.7	61.8	62.3	62.4	62.5	62.6	62.6	62.7	62.7	62.7	62.7	62.9	62.9	62.9	63.0
≥ 8000	55.9	61.8	63.0	63.4	63.6	63.6	63.8	63.8	63.8	63.9	63.9	63.9	64.0	64.0	64.1	64.1
≥ 7000	58.4	64.5	65.7	66.1	66.3	66.3	66.5	66.5	66.5	66.6	66.6	66.6	66.7	66.7	66.8	66.8
≥ 6000	61.5	67.8	69.7	69.4	69.6	69.6	69.8	69.8	69.8	69.9	69.9	69.9	70.0	70.0	70.1	70.1
≥ 5000	66.2	72.7	73.9	74.4	74.6	74.6	74.7	74.7	74.8	74.8	74.9	74.9	75.1	75.1	75.1	75.1
≥ 4300	68.7	74.7	76.1	76.4	76.6	76.7	76.8	76.8	76.9	76.9	77.0	77.0	77.1	77.1	77.1	77.2
≥ 4000	71.6	78.7	80.1	80.5	80.7	80.8	80.9	80.9	81.0	81.0	81.1	81.1	81.2	81.2	81.2	81.3
≥ 3500	73.7	81.2	82.6	83.1	83.3	83.4	83.5	83.6	83.6	83.6	83.7	83.7	83.8	83.8	83.8	83.9
≥ 3000	76.2	84.6	85.2	86.9	87.1	87.2	87.3	87.4	87.4	87.5	87.5	87.5	87.6	87.6	87.6	87.7
≥ 2500	77.9	86.7	88.4	89.3	89.6	89.6	89.8	89.8	89.9	89.9	90.0	90.0	90.1	90.1	90.1	90.2
≥ 2000	79.3	88.6	90.4	91.4	91.6	91.7	91.9	91.9	92.0	92.0	92.1	92.1	92.2	92.2	92.2	92.3
≥ 1800	79.6	89.1	91.9	91.8	92.1	92.2	92.4	92.4	92.5	92.5	92.6	92.6	92.7	92.7	92.7	92.8
≥ 1500	81.0	90.1	92.1	93.1	93.4	93.5	93.7	93.7	93.8	93.8	93.9	93.9	94.0	94.0	94.0	94.1
≥ 1200	80.4	90.9	93.2	94.3	94.6	94.7	95.1	95.1	95.2	95.2	95.3	95.3	95.4	95.4	95.4	95.5
≥ 1000	80.7	91.4	93.9	95.2	95.5	95.7	96.0	96.1	96.1	96.2	96.2	96.2	96.3	96.3	96.4	96.5
≥ 900	80.7	91.7	94.1	95.4	95.9	96.0	96.4	96.5	96.5	96.6	96.7	96.7	96.8	96.8	96.8	96.9
≥ 800	80.8	91.8	94.2	95.8	96.2	96.4	96.8	96.9	97.0	97.0	97.1	97.1	97.2	97.2	97.3	97.4
≥ 700	80.9	92.1	94.4	96.1	96.6	96.7	97.2	97.3	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.8
≥ 600	80.9	92.1	94.5	96.2	96.8	97.1	97.5	97.6	97.6	97.7	97.8	97.8	97.9	97.9	98.0	98.1
≥ 500	80.9	92.2	94.7	96.3	97.1	97.3	97.9	98.0	98.1	98.2	98.3	98.3	98.4	98.4	98.4	98.5
≥ 400	80.9	92.2	94.7	96.6	97.3	97.5	98.2	98.4	98.4	98.5	98.6	98.6	98.8	98.8	98.9	99.0
≥ 300	80.9	92.3	94.8	96.7	97.4	97.6	98.4	98.6	98.7	98.9	99.0	99.0	99.2	99.2	99.3	99.4
≥ 200	80.9	92.3	94.8	96.7	97.4	97.7	98.5	98.7	98.8	99.0	99.2	99.2	99.5	99.5	99.6	99.7
≥ 100	80.9	92.3	94.8	96.7	97.4	97.7	98.5	98.7	98.8	99.1	99.3	99.3	99.6	99.6	99.7	99.9
≥ 0	80.9	92.3	94.8	96.7	97.4	97.7	98.5	98.7	98.8	99.1	99.3	99.3	99.6	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 51137

USAF ETAC FORM JUL 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION
PORTLAND IAP OR

STATION NAME

73-79

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800-1700
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	37.2	44.5	45.5	46.9	47.2	47.2	47.4	47.7	47.7	48.0	48.0	48.0	48.1	48.0	48.5	49.1
≥20000	9.6	48.2	49.2	5.6	5.9	59.9	51.1	51.4	51.4	51.7	51.7	51.7	51.7	51.7	52.2	52.8
≥18000	47.9	48.5	49.5	51.9	51.2	51.2	51.4	51.7	51.7	52.0	52.0	52.0	52.0	52.0	52.5	53.1
≥16000	47.9	48.5	49.5	51.9	51.2	51.2	51.4	51.7	51.7	52.0	52.0	52.0	52.0	52.0	52.5	53.1
≥14000	41.4	49.7	51.2	51.5	51.8	51.8	52.0	52.3	52.3	52.6	52.6	52.6	52.6	52.6	53.1	53.7
≥12000	42.2	50.3	51.4	52.8	53.1	53.1	53.2	53.5	53.5	53.8	53.8	53.8	53.8	53.8	54.3	54.9
≥10000	43.1	51.4	52.5	53.8	54.2	54.2	54.3	54.6	54.6	54.9	54.9	54.9	54.9	54.9	55.4	56.0
≥9000	43.7	52.5	53.5	54.9	55.2	55.2	55.4	55.7	55.7	56.0	56.0	56.0	56.0	56.0	56.5	57.1
≥8000	45.1	54.0	55.1	56.5	56.8	56.8	56.9	57.2	57.2	57.5	57.5	57.5	57.5	57.5	58.0	58.6
≥7000	47.5	57.1	58.2	59.5	59.8	59.8	60.0	60.3	60.3	60.6	60.6	60.6	60.6	60.6	61.1	61.7
≥6000	5.0	60.2	61.5	62.9	63.2	63.2	63.4	63.7	63.7	64.0	64.0	64.0	64.0	64.0	64.5	65.1
≥5000	52.6	63.5	64.9	66.3	66.6	66.6	66.8	67.1	67.1	67.4	67.4	67.4	67.4	67.4	67.9	68.5
≥4500	55.8	66.9	68.4	7.0	70.3	70.3	70.5	70.8	70.8	71.1	71.1	71.1	71.1	71.1	71.5	72.2
≥4000	57.8	72.6	74.0	75.7	76.0	76.0	76.2	76.5	76.5	76.8	76.8	76.8	76.8	76.8	77.2	77.8
≥3500	53.7	76.2	77.5	79.2	79.5	79.5	79.7	80.0	80.0	80.3	80.3	80.3	80.3	80.3	80.8	81.4
≥3000	66.3	79.8	81.2	83.1	83.4	83.4	83.7	84.0	84.0	84.3	84.3	84.3	84.3	84.3	84.8	85.4
≥2500	69.1	82.3	84.5	86.3	86.6	86.6	86.9	87.2	87.2	87.5	87.5	87.5	87.5	87.5	88.0	88.6
≥2000	69.1	84.5	86.9	88.9	89.4	89.4	89.7	90.0	90.0	90.3	90.3	90.3	90.3	90.3	90.8	91.4
≥1800	69.2	84.8	87.5	89.7	90.2	90.2	90.5	90.8	90.8	91.1	91.1	91.1	91.1	91.1	91.5	92.2
≥1500	69.2	85.7	88.6	90.9	91.5	91.5	91.8	92.2	92.2	92.5	92.5	92.5	92.5	92.5	93.2	93.8
≥1200	67.4	86.8	89.7	92.2	92.8	92.8	93.1	93.4	93.4	93.7	93.7	93.7	93.7	93.7	94.5	95.1
≥1000	69.4	86.9	89.8	92.5	93.1	93.1	93.4	93.7	93.7	94.0	94.0	94.0	94.0	94.0	94.8	95.4
≥900	69.4	86.9	9.0	92.5	93.4	93.4	93.7	94.0	94.0	94.3	94.3	94.3	94.3	94.3	95.1	95.7
≥800	69.4	87.1	9.0	92.9	93.7	93.7	94.0	94.3	94.3	94.6	94.6	94.6	94.6	94.6	95.4	96.0
≥700	69.4	87.1	9.0	92.9	93.7	93.7	94.0	94.3	94.3	94.6	94.6	94.6	94.6	94.6	95.4	96.0
≥600	69.4	87.5	9.0	93.4	94.2	94.2	94.5	94.8	94.8	95.1	95.1	95.1	95.1	95.1	95.5	96.2
≥500	69.4	87.7	90.8	94.0	95.2	95.2	95.5	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.5	97.2
≥400	69.4	87.7	90.8	94.2	95.4	95.4	95.7	96.0	96.0	96.3	96.3	96.3	96.3	96.3	96.7	97.4
≥300	69.4	87.7	90.8	94.2	95.4	95.4	95.7	96.0	96.0	96.3	96.3	96.3	96.3	96.3	96.7	97.4
≥200	69.4	87.7	90.8	94.2	95.4	95.4	95.7	96.0	96.0	96.3	96.3	96.3	96.3	96.3	96.7	97.4
≥100	69.4	87.7	90.8	94.2	95.4	95.4	95.7	96.0	96.0	96.3	96.3	96.3	96.3	96.3	96.7	97.4
≥0	69.4	87.7	90.8	94.2	95.4	95.4	95.7	96.0	96.0	96.3	96.3	96.3	96.3	96.3	96.7	97.4

TOTAL NUMBER OF OBSERVATIONS 650

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION
PORTLAND IAP OR

STATION NAME
PORTLAND IAP OR

YEARS
73-79

MONTH
OCT

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1300-0500
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	28.9	33.8	34.6	36.0	37.1	37.1	37.2	37.5	37.5	37.8	38.2	38.2	38.5	38.5	38.9	39.5
≥ 20000	3.2	36.2	36.8	38.2	39.4	39.4	40.0	40.3	40.3	40.6	40.9	40.9	41.4	41.4	41.8	42.5
≥ 18000	3.2	36.2	36.9	38.3	39.5	39.5	40.2	40.5	40.5	40.8	41.1	41.1	41.5	41.5	42.0	42.6
≥ 16000	3.2	36.2	36.9	38.3	39.5	39.5	40.2	40.5	40.5	40.8	41.1	41.1	41.5	41.5	42.0	42.6
≥ 14000	31.3	37.2	38.1	39.4	40.6	40.6	41.2	41.5	41.5	41.8	42.2	42.2	42.6	42.6	43.1	43.7
≥ 12000	32.6	38.8	39.5	40.9	42.2	42.2	42.8	43.1	43.1	43.9	43.7	43.7	44.3	44.3	44.8	45.4
≥ 10000	33.8	40.0	40.8	42.2	43.4	43.4	44.0	44.3	44.3	44.6	44.9	44.9	45.5	45.5	46.0	46.6
≥ 9000	34.6	41.1	41.8	43.2	44.5	44.5	45.1	45.4	45.4	45.7	46.0	46.0	46.6	46.6	47.1	47.7
≥ 8000	34.8	41.5	42.1	43.7	44.9	44.9	45.5	45.8	45.8	46.2	46.5	46.5	47.1	47.1	47.5	48.2
≥ 7000	36.8	44.0	44.9	46.3	47.5	47.5	48.2	48.5	48.5	48.8	49.1	49.1	49.7	49.7	50.2	50.8
≥ 6000	39.4	47.1	48.3	49.7	50.9	50.9	51.5	51.8	51.8	52.2	52.5	52.5	53.1	53.1	53.5	54.3
≥ 5000	42.6	50.5	51.7	53.1	54.3	54.3	54.9	55.2	55.2	55.5	55.8	55.8	56.5	56.5	56.9	57.8
≥ 4500	46.2	54.9	56.2	57.5	58.8	58.8	59.4	59.7	59.7	60.0	60.3	60.3	60.9	60.9	61.4	62.3
≥ 4000	49.8	59.8	61.2	62.6	63.8	63.8	64.5	64.8	64.8	65.1	65.4	65.4	66.0	66.0	66.5	67.4
≥ 3500	52.3	63.2	64.6	66.0	67.2	67.2	67.8	68.2	68.2	68.5	68.8	68.8	69.4	69.4	69.8	70.8
≥ 3000	55.1	67.4	68.9	70.3	71.5	71.5	72.3	72.6	72.6	72.9	73.2	73.2	73.8	73.8	74.3	75.2
≥ 2500	57.2	70.9	72.6	74.0	75.2	75.2	76.0	76.3	76.3	76.6	76.9	76.9	77.5	77.5	78.0	78.9
≥ 2000	57.7	72.9	74.6	76.0	77.4	77.4	78.2	78.5	78.5	78.8	79.1	79.1	79.7	79.7	80.3	81.2
≥ 1800	57.7	72.8	75.1	76.6	78.0	78.0	78.9	79.2	79.2	79.5	79.8	79.8	80.5	80.5	81.1	82.0
≥ 1500	58.5	74.2	76.4	78.9	80.0	80.0	81.1	81.4	81.4	81.7	82.1	82.1	82.6	82.6	83.2	84.2
≥ 1200	59.1	75.4	78.1	80.2	81.7	81.7	82.9	83.2	83.2	83.5	83.8	83.8	84.5	84.5	85.1	86.1
≥ 1000	59.2	76.5	79.2	81.7	83.2	83.2	84.5	84.9	84.9	85.2	85.7	85.7	86.3	86.3	86.9	87.8
≥ 900	59.2	76.5	79.4	81.8	83.4	83.4	84.6	85.1	85.1	85.4	85.8	85.8	86.5	86.5	87.1	88.0
≥ 800	59.2	76.8	80.3	82.9	84.6	84.6	85.8	86.3	86.3	86.6	87.1	87.1	87.7	87.7	88.3	89.2
≥ 700	59.2	76.8	80.5	83.7	85.5	85.5	86.8	87.2	87.2	87.5	88.0	88.0	88.6	88.6	89.2	90.2
≥ 600	59.2	77.1	80.8	84.3	86.3	86.3	87.5	88.0	88.0	88.3	88.8	88.8	89.4	89.4	90.0	90.9
≥ 500	59.2	77.4	81.1	85.1	87.2	87.2	88.5	89.1	89.1	89.4	89.8	89.8	90.5	90.5	91.1	92.0
≥ 400	59.2	77.4	81.1	85.2	87.4	87.4	88.8	89.4	89.4	89.7	90.3	90.3	90.9	90.9	91.5	92.4
≥ 300	59.2	77.4	81.1	85.4	87.7	87.7	89.1	89.8	89.8	90.3	90.9	90.9	91.1	91.8	91.8	92.4
≥ 200	59.2	77.4	81.1	85.5	87.8	87.8	89.2	90.2	90.3	90.9	91.1	91.1	91.8	91.8	92.4	93.2
≥ 100	59.2	77.4	81.1	85.5	87.8	87.8	89.2	90.3	90.5	91.7	92.5	92.5	92.6	94.0	94.0	94.6
≥ 0	59.2	77.4	81.1	85.5	87.8	87.8	89.2	90.3	90.5	91.7	92.5	92.5	92.6	94.0	94.0	94.6

TOTAL NUMBER OF OBSERVATIONS 650

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

6:00-11:59
HOURS (GMT)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	25.2	26.3	28.1	28.9	28.9	29.2	29.5	29.5	30.1	30.4	30.4	31.9	30.9	32.0	32.6	
≥ 20000	27.3	28.6	31.6	31.3	31.3	31.6	32.0	32.0	32.6	32.9	32.9	33.3	33.3	34.4	35.2	
≥ 18000	27.5	28.7	31.7	31.5	31.5	31.8	32.1	32.1	32.7	33.0	33.0	33.5	33.5	34.6	35.3	
≥ 16000	27.6	28.9	31.9	31.6	31.6	32.0	32.3	32.3	32.9	33.2	33.2	33.6	33.6	34.7	35.5	
≥ 14000	29.8	31.7	32.7	33.5	33.5	33.8	34.1	34.1	34.7	35.0	35.0	35.5	35.5	36.6	37.5	
≥ 12000	31.3	32.6	34.6	35.3	35.3	35.6	35.9	35.9	36.7	37.1	37.1	37.5	37.5	38.6	39.5	
≥ 10000	32.4	33.8	35.8	36.6	36.6	36.9	37.2	37.2	37.9	38.2	38.2	38.7	38.7	39.8	40.7	
≥ 9000	33.6	35.1	37.0	37.8	37.8	38.1	38.4	38.4	39.2	39.5	39.5	39.9	39.9	41.0	41.9	
≥ 8000	34.4	35.8	37.8	38.6	38.6	38.9	39.2	39.2	39.9	40.2	40.2	40.7	40.7	41.8	42.7	
≥ 7000	36.7	38.1	40.1	40.9	40.9	41.2	41.5	41.5	42.2	42.5	42.5	43.1	43.1	44.1	45.0	
≥ 6000	38.6	40.2	42.2	43.0	43.0	43.3	43.6	43.6	44.4	44.7	44.7	45.2	45.2	46.2	47.2	
≥ 5000	44.1	45.8	47.8	48.7	48.7	49.0	49.3	49.3	50.1	50.4	50.4	50.8	50.8	51.9	52.8	
≥ 4500	46.4	48.2	50.4	51.3	51.3	51.6	51.9	51.9	52.7	53.0	53.0	53.5	53.5	54.5	55.5	
≥ 4000	49.6	51.6	53.8	54.7	54.7	55.1	55.3	55.3	56.1	56.4	56.4	56.8	56.8	57.9	58.8	
≥ 3500	52.1	54.1	56.4	57.3	57.3	57.6	57.9	57.9	58.7	59.0	59.0	59.4	59.4	60.5	61.4	
≥ 3000	55.1	57.3	59.9	61.1	61.1	61.4	61.8	61.8	62.5	62.8	62.8	63.3	63.3	64.4	65.3	
≥ 2500	57.3	59.8	62.8	64.1	64.1	64.4	64.7	64.8	65.6	65.9	65.9	66.4	66.4	67.4	68.4	
≥ 2000	58.4	60.8	63.9	65.4	65.4	65.7	66.1	66.2	67.1	67.3	67.3	67.7	67.7	68.8	69.7	
≥ 1800	58.7	61.1	64.5	66.1	66.1	66.4	66.7	66.8	67.6	67.9	67.9	68.4	68.4	69.4	70.4	
≥ 1500	59.4	62.5	66.8	68.5	68.5	69.0	69.4	69.6	70.4	70.7	70.7	71.1	71.1	72.2	73.1	
≥ 1200	61.3	64.7	69.3	71.1	71.1	72.0	72.7	72.8	73.6	73.9	73.9	74.3	74.3	75.4	76.3	
≥ 1000	62.1	65.4	70.2	72.0	72.0	73.1	73.9	74.0	75.1	75.4	75.4	75.9	75.9	77.0	77.9	
≥ 900	62.4	65.9	71.8	73.0	73.4	74.3	75.3	75.4	76.5	76.8	76.8	77.3	77.3	78.3	79.4	
≥ 800	62.4	65.9	71.8	73.7	73.4	75.0	75.9	75.0	77.3	77.6	77.6	78.0	78.0	79.1	80.2	
≥ 700	62.5	66.8	71.7	74.3	75.1	76.8	77.9	78.0	79.4	79.7	79.7	80.2	80.2	81.3	82.3	
≥ 600	63.3	67.7	72.8	75.6	76.5	78.6	80.0	80.2	81.7	82.2	82.2	82.6	82.6	83.7	84.8	
≥ 500	63.1	68.2	73.7	76.5	77.4	80.0	81.9	82.1	83.7	84.3	84.3	84.9	84.9	86.0	87.1	
≥ 400	63.1	68.4	74.2	77.1	78.1	81.8	82.8	82.9	84.9	85.9	85.9	86.8	86.8	87.9	88.9	
≥ 300	63.1	68.4	74.3	77.4	78.5	81.6	84.1	84.2	86.2	87.3	87.3	88.9	88.9	89.1	91.1	
≥ 200	63.1	68.4	74.3	77.7	78.8	81.9	84.5	84.6	86.9	88.8	88.8	90.9	91.1	93.4	95.9	
≥ 100	63.1	68.4	74.3	77.7	78.8	81.9	84.5	84.6	87.3	89.4	89.4	91.7	91.9	94.5	99.2	
≥ 0	63.1	68.4	74.3	77.7	78.8	81.9	84.5	84.6	87.3	89.4	89.4	91.7	91.9	94.6	99.2	

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFD WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION 2129 PORTLAND IAP OR

YEARS 73-79

MONTH OCT

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1973-1979
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	25.0	33.2	35.2	36.7	38.4	39.6	38.9	39.0	39.1	39.0	39.0	39.0	39.0	39.2	39.2	39.6
≥ 20000	26.9	36.4	38.4	39.9	41.9	42.2	42.5	42.7	42.7	42.7	42.7	42.7	42.7	42.9	42.9	43.5
≥ 18000	26.9	36.4	38.4	39.9	41.9	42.2	42.5	42.7	42.7	42.7	42.7	42.7	42.7	42.9	42.9	43.5
≥ 16000	27.0	36.6	38.6	40.0	42.1	42.4	42.7	42.9	42.9	42.9	42.9	42.9	42.9	43.0	43.0	43.6
≥ 14000	27.5	37.1	39.1	40.6	42.5	42.9	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.6	43.6	44.2
≥ 12000	28.6	38.1	40.1	41.6	43.6	43.9	44.2	44.4	44.4	44.4	44.4	44.4	44.4	44.7	44.7	45.3
≥ 10000	30.4	40.2	42.2	43.9	45.9	46.2	46.5	46.7	46.7	46.7	46.7	46.7	46.7	47.0	47.0	47.6
≥ 9000	31.3	41.3	43.3	45.0	47.0	47.3	47.6	47.8	47.8	47.8	47.8	47.8	47.8	48.1	48.1	48.7
≥ 8000	32.3	42.4	44.4	46.1	48.1	48.4	48.7	48.8	48.8	48.8	48.8	48.8	48.8	49.2	49.2	49.8
≥ 7000	33.2	43.6	45.6	47.3	49.3	49.6	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.5	50.5	51.2
≥ 6000	35.5	46.4	48.4	50.1	52.1	52.4	52.8	53.0	53.0	53.0	53.0	53.0	53.0	53.3	53.3	53.9
≥ 5000	40.7	51.9	53.9	55.8	57.8	58.1	58.5	58.7	58.7	58.7	58.7	58.7	58.7	59.0	59.0	59.6
≥ 4500	42.1	53.8	55.8	57.6	59.6	59.9	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.8	60.8	61.4
≥ 4000	45.8	58.2	61.7	62.7	65.0	65.3	65.7	65.9	65.9	65.9	65.9	65.9	65.9	66.2	66.2	66.8
≥ 3500	47.6	60.2	62.7	64.7	67.3	67.7	67.9	67.9	67.9	67.9	67.9	67.9	67.9	68.2	68.2	68.8
≥ 3000	49.5	62.5	65.0	67.1	69.4	69.9	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.8	70.8	71.4
≥ 2500	50.6	64.4	67.0	69.3	71.7	72.2	72.7	72.8	73.0	73.0	73.0	73.0	73.0	73.3	73.3	73.9
≥ 2000	51.9	66.1	68.7	71.1	73.6	74.1	74.5	74.7	74.8	74.8	74.8	74.8	74.8	75.1	75.1	75.7
≥ 1800	52.4	67.3	70.0	72.7	75.1	75.6	76.1	76.2	76.3	76.3	76.3	76.3	76.3	76.7	76.7	77.3
≥ 1500	52.8	69.1	72.5	75.1	77.7	78.3	78.8	79.1	79.1	79.1	79.1	79.1	79.1	79.4	79.4	80.0
≥ 1200	53.3	71.1	74.7	77.7	80.5	81.3	82.1	82.2	82.3	82.3	82.3	82.3	82.3	82.8	82.8	83.4
≥ 1000	54.7	72.8	77.1	80.3	83.1	83.9	85.1	85.3	85.4	85.7	85.7	85.7	85.7	86.0	86.0	86.6
≥ 900	54.7	73.3	77.7	81.4	84.2	84.9	86.5	86.8	86.9	87.4	87.4	87.4	87.4	87.7	87.7	88.3
≥ 800	54.8	73.7	78.5	82.5	85.3	86.3	87.9	88.6	89.1	89.6	89.6	89.6	89.6	89.9	89.9	90.5
≥ 700	55.0	74.1	79.0	83.3	86.1	86.8	88.8	89.7	90.3	91.4	91.4	91.4	91.4	91.7	91.7	92.3
≥ 600	55.0	74.1	79.0	83.4	86.2	86.9	89.2	90.6	91.2	92.3	92.3	92.3	92.3	92.6	92.6	93.2
≥ 500	55.1	74.2	79.1	83.7	86.5	87.4	91.3	92.3	93.2	94.6	94.6	94.6	94.6	94.9	94.9	95.5
≥ 400	55.2	74.2	79.1	83.7	86.5	87.4	91.5	92.8	93.7	95.7	96.0	96.0	96.0	96.3	96.3	96.9
≥ 300	55.1	74.2	79.1	83.9	86.6	87.6	91.6	93.5	94.8	97.1	97.8	97.8	97.8	98.2	98.2	98.8
≥ 200	55.1	74.2	79.1	83.9	86.9	87.9	92.9	93.9	95.1	97.4	98.5	98.5	98.5	98.9	98.9	99.8
≥ 100	55.2	74.2	79.1	83.9	86.9	87.9	92.9	93.9	95.1	97.4	98.5	98.5	98.5	98.9	98.9	100.0
≥ 0	55.2	74.2	79.1	83.9	86.9	87.9	92.9	93.9	95.1	97.4	98.5	98.5	98.5	98.9	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	36.8	43.7	45.1	47.2	47.7	47.8	49.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
≥ 20000	38.8	47.1	48.8	51.1	51.5	51.7	52.0	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 18000	38.9	47.4	49.1	51.4	51.8	52.1	52.3	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥ 16000	39.4	47.8	49.5	51.8	52.3	52.5	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 14000	40.3	48.8	50.6	52.9	53.4	53.5	53.8	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 12000	41.3	50.3	52.2	54.5	54.9	55.1	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 10000	44.8	53.3	55.4	57.7	58.2	58.3	58.6	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 9000	46.5	54.3	56.2	58.5	58.9	59.1	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 8000	46.8	55.7	57.5	59.8	60.3	60.6	61.2	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 7000	48.2	57.4	59.3	61.7	62.2	62.5	63.2	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 6000	51.1	61.3	62.7	64.6	65.1	65.4	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 5000	55.8	65.5	67.5	71.7	71.5	70.8	71.5	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 4500	58.1	67.8	69.8	72.3	72.8	73.1	73.8	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 4000	62.3	73.4	75.7	78.2	78.6	78.9	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 3500	65.1	76.8	79.1	81.5	82.0	82.3	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 3000	67.7	79.8	82.5	84.9	85.4	85.7	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 2500	69.8	82.9	85.5	88.0	88.6	88.9	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 2000	71.7	86.0	89.1	91.8	92.5	92.9	94.1	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 1800	71.8	86.3	89.5	92.3	92.9	93.5	94.6	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 1500	72.0	87.4	90.6	93.5	94.2	94.8	96.0	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1200	72.3	88.3	91.5	94.8	95.4	96.3	97.5	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1000	72.3	88.6	91.8	95.1	95.7	96.6	98.0	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 900	72.5	88.8	92.1	95.2	95.8	96.8	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 800	72.5	88.8	92.1	95.2	95.8	96.8	98.3	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700	72.5	88.8	92.1	95.2	95.8	96.8	98.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 600	72.5	88.8	92.1	95.2	95.8	96.8	98.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500	72.5	88.8	92.1	95.2	95.8	96.8	98.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	72.5	88.8	92.1	95.4	96.0	96.9	98.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	72.5	88.8	92.0	95.4	96.0	96.9	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	72.5	88.8	92.0	95.4	96.0	96.9	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	72.5	88.8	92.0	95.4	96.0	96.9	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	72.5	88.8	92.0	95.4	96.0	96.9	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 951

USAF ETAC

FORM
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1927
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥5	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥¾	≥¾	≥5/16	≥¼	≥0
NO CEILING	44.2	49.9	51.0	50.7	53.7	50.7	50.8	50.8	50.5	50.8	50.8	50.8	50.8	50.8	50.8	50.8
≥ 20000	48.4	54.4	54.7	55.8	55.8	55.8	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 18000	48.5	54.5	54.8	55.9	55.9	55.9	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 16000	48.8	54.8	55.1	56.2	56.2	56.2	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 14000	51.6	57.8	58.1	59.1	59.1	59.1	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 12000	53.8	60.1	60.4	61.4	61.4	61.4	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 10000	55.1	61.9	62.2	63.3	63.3	63.3	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 9000	55.6	62.5	62.8	63.9	63.9	64.2	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 8000	57.3	64.5	65.0	66.4	66.4	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 7000	59.3	66.8	67.3	68.7	68.7	69.0	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 6000	63.1	71.8	71.3	72.7	72.7	73.0	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 5000	68.4	77.0	77.4	78.8	78.8	79.1	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 4500	71.6	81.7	81.4	82.8	82.8	83.1	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 4000	75.0	85.6	86.2	87.6	87.6	87.9	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 3500	77.0	88.1	88.6	90.0	90.0	90.3	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 3000	78.8	90.3	90.9	92.3	92.3	92.6	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 2500	79.6	91.9	92.5	94.0	94.0	94.3	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 2000	80.9	92.5	93.4	95.1	95.1	95.5	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1800	80.9	93.4	94.3	96.0	96.0	96.5	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1500	80.9	94.3	95.2	96.9	96.9	97.4	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1200	80.9	94.5	95.4	97.4	97.4	98.3	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1000	80.9	94.5	95.4	97.4	98.3	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 900	80.9	94.5	95.4	97.4	98.3	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800	80.9	94.5	95.4	97.4	98.3	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 700	80.9	94.5	95.4	97.4	98.3	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 600	80.9	94.5	95.4	97.4	98.3	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 500	80.9	94.5	95.4	97.4	98.3	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 400	80.9	94.5	95.4	97.4	98.3	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 300	80.9	94.5	95.4	97.4	98.3	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 200	80.9	94.5	95.4	97.4	98.3	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 100	80.9	94.5	95.4	97.4	98.3	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 0	80.9	94.5	95.4	97.4	98.3	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 52

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

29
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19.10-20.01
HOURS 11-15

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	45.0	50.1	51.4	51.8	51.8	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 20000	49.7	54.4	54.7	55.3	55.3	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 18000	49.7	54.4	54.7	55.3	55.3	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 16000	49.7	54.4	54.7	55.3	55.3	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 14000	49.2	54.5	54.8	55.5	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
≥ 12000	51.2	57.0	57.5	58.1	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
≥ 10000	53.6	59.6	61.1	61.8	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 9000	54.4	60.7	61.1	61.9	61.9	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 8000	55.6	62.2	62.7	63.4	63.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 7000	58.1	65.1	65.7	66.5	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 6000	62.4	69.7	71.4	71.1	71.1	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 5000	66.1	73.9	74.5	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 4500	77.4	79.1	79.7	80.5	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 4000	74.3	84.9	85.7	86.5	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 3500	75.3	86.9	87.7	88.5	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 3000	78.2	90.9	92.2	93.1	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 2500	78.8	92.8	94.0	94.9	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 2000	79.1	93.9	95.4	96.5	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1800	90.1	93.9	95.4	96.5	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1500	79.3	94.3	95.9	96.9	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1200	79.6	95.4	97.2	98.3	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1000	79.5	95.7	97.5	98.8	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	79.6	95.9	97.8	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	79.6	95.9	97.8	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	79.6	95.9	98.0	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 600	79.6	95.9	98.0	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 500	79.6	95.9	98.2	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	79.6	95.9	98.2	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	79.6	95.9	98.2	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	79.6	95.9	98.2	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	79.6	95.9	98.2	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	79.6	95.9	98.2	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION
PORTLAND IAP OR

STATION NAME

YEARS
73-79

MONTH
OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2100-2300
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING	45.3	5.7	51.0	52.1	52.4	52.4	52.4	52.5	52.5	52.5	52.5	52.5	52.7	52.7	52.7	52.7
≥ 20000	48.1	54.2	54.5	55.6	55.9	55.9	55.9	56.1	56.1	56.1	56.1	56.1	56.2	56.2	56.2	56.2
IV ≥ 18000	48.1	54.2	54.5	55.6	55.9	55.9	55.9	56.1	56.1	56.1	56.1	56.1	56.2	56.2	56.2	56.2
IV ≥ 16000	48.1	54.2	54.5	55.6	55.9	55.9	55.9	56.1	56.1	56.1	56.1	56.1	56.2	56.2	56.2	56.2
IV ≥ 14000	48.4	54.5	54.8	55.9	56.2	56.2	56.2	56.4	56.4	56.4	56.4	56.4	56.5	56.5	56.5	56.5
IV ≥ 12000	49.3	56.2	56.5	57.6	57.9	57.9	57.9	58.1	58.1	58.1	58.1	58.1	58.2	58.2	58.2	58.2
IV ≥ 10000	51.2	57.6	58.1	59.1	59.4	59.4	59.4	59.6	59.6	59.6	59.6	59.6	59.8	59.8	59.8	59.8
IV ≥ 9000	52.5	59.8	60.1	61.1	61.4	61.4	61.4	61.6	61.6	61.6	61.6	61.6	61.8	61.8	61.8	61.8
IV ≥ 8000	53.1	60.8	61.3	62.4	62.7	62.7	62.7	62.8	62.8	62.8	62.8	62.8	63.0	63.0	63.0	63.0
IV ≥ 7000	55.1	63.0	63.4	64.5	64.8	64.8	64.8	65.0	65.0	65.0	65.0	65.0	65.1	65.1	65.1	65.1
IV ≥ 6000	57.5	65.7	66.2	67.4	67.7	67.7	67.7	67.9	67.9	67.9	67.9	67.9	68.0	68.0	68.0	68.0
IV ≥ 5000	61.1	69.1	69.6	71.8	71.1	71.1	71.1	71.3	71.3	71.3	71.3	71.3	71.4	71.4	71.4	71.4
IV ≥ 4500	63.9	73.6	74.1	75.4	75.7	75.7	75.7	75.9	75.9	75.9	75.9	75.9	76.0	76.0	76.0	76.0
IV ≥ 4000	69.1	79.7	81.2	81.6	81.9	81.9	81.9	82.1	82.1	82.1	82.1	82.1	82.2	82.2	82.2	82.2
IV ≥ 3500	72.2	83.7	84.2	85.7	86.0	86.0	86.0	86.2	86.2	86.2	86.2	86.2	86.3	86.3	86.3	86.3
IV ≥ 3000	76.3	88.6	89.1	9.9	91.2	91.2	91.2	91.4	91.4	91.4	91.4	91.4	91.6	91.6	91.6	91.6
IV ≥ 2500	77.3	90.6	91.2	93.1	93.4	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.7	93.7	93.7	93.7
IV ≥ 2000	79.7	92.4	94.3	96.2	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.8	96.8	96.8	96.8
IV ≥ 1800	79.1	93.2	94.6	96.5	96.9	96.9	96.9	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2
IV ≥ 1500	79.1	93.5	94.9	96.8	97.2	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.5	97.5	97.5	97.5
IV ≥ 1200	79.7	94.3	95.7	98.0	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.8	98.8	98.8	98.8
IV ≥ 1000	79.9	94.9	96.3	98.6	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.4
IV ≥ 900	79.9	95.1	96.5	98.8	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
IV ≥ 800	79.9	95.1	96.5	98.8	99.2	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
IV ≥ 700	79.9	95.2	96.6	98.9	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.7	99.7	99.7	99.7
IV ≥ 600	79.9	95.4	96.8	99.1	99.5	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
IV ≥ 500	79.9	95.4	96.8	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
IV ≥ 400	79.9	95.4	96.8	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
IV ≥ 300	79.9	95.4	96.8	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
IV ≥ 200	79.9	95.4	96.8	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
IV ≥ 100	79.9	95.4	96.8	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9
IV ≥ 0	79.9	95.4	96.8	99.2	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

73-79

OCT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING	35.4	41.4	42.3	43.6	44.1	44.2	44.4	44.6	44.6	44.7	44.8	44.8	44.9	44.9	45.2	45.5
≥ 20000	38.1	44.7	45.7	47.1	47.8	47.8	48.1	48.3	48.3	48.4	48.5	48.5	48.7	48.7	49.0	49.2
≥ 18000	38.2	44.9	45.8	47.3	47.9	48.0	48.2	48.4	48.4	48.6	48.6	48.6	48.8	48.8	49.1	49.4
IV 16000	38.3	45.0	46.0	47.4	48.0	48.1	48.4	48.5	48.5	48.7	48.8	48.8	48.9	48.9	49.3	49.5
≥ 14000	39.3	46.1	47.0	48.5	49.1	49.2	49.4	49.6	49.6	49.8	49.8	49.8	50.0	50.0	50.3	50.6
IV 12000	40.8	47.8	48.8	50.2	51.8	51.9	51.2	51.3	51.3	51.5	51.6	51.6	51.8	51.8	52.1	52.4
≥ 10000	42.4	49.6	51.6	52.1	52.7	52.8	53.1	53.3	53.3	53.4	53.5	53.5	53.7	53.7	54.0	54.3
IV 9000	43.3	51.7	51.7	53.2	53.8	53.9	54.2	54.4	54.4	54.6	54.6	54.6	54.8	54.8	55.2	55.4
IV 8000	44.3	52.3	53.1	54.5	55.1	55.3	55.6	55.8	55.8	55.9	56.0	56.0	56.2	56.2	56.5	56.8
IV 7000	45.2	54.2	55.3	56.8	57.5	57.6	57.9	58.1	58.1	58.3	58.4	58.4	58.6	58.6	58.9	59.2
IV 6000	49.0	57.3	58.6	60.1	60.7	60.9	61.2	61.4	61.4	61.6	61.6	61.6	61.8	61.8	62.2	62.4
IV 5000	53.2	61.9	63.2	64.7	65.4	65.5	65.9	66.0	66.0	66.2	66.3	66.3	66.5	66.5	66.8	67.1
IV 4500	55.9	65.4	66.7	68.3	69.0	69.1	69.5	69.6	69.6	69.8	69.9	69.9	70.1	70.1	70.4	70.7
IV 4000	58.1	70.5	71.9	73.6	74.3	74.4	74.8	74.9	74.9	75.1	75.2	75.2	75.4	75.4	75.7	76.0
IV 3500	62.2	73.4	74.8	76.5	77.2	77.3	77.7	77.9	77.9	78.0	78.1	78.1	78.3	78.3	78.6	78.9
IV 3000	64.7	76.8	78.4	80.2	81.7	81.8	81.5	81.7	81.7	81.8	81.9	81.9	82.1	82.1	82.4	82.7
IV 2500	66.2	79.1	80.9	82.8	83.7	83.8	84.2	84.4	84.4	84.6	84.7	84.7	84.9	84.9	85.2	85.5
IV 2000	67.1	81.8	82.9	84.9	85.9	86.1	86.5	86.7	86.7	86.9	87.0	87.0	87.2	87.2	87.5	87.8
IV 1800	67.3	81.3	83.5	85.6	86.6	86.8	87.2	87.4	87.5	87.6	87.7	87.7	87.9	87.9	88.2	88.5
IV 1500	67.5	82.2	84.6	86.9	88.0	88.2	88.7	89.0	89.1	89.2	89.3	89.3	89.5	89.5	89.8	90.1
IV 1200	67.9	83.4	85.9	88.5	89.5	89.9	91.5	91.8	91.8	91.8	92.0	92.0	92.2	92.2	92.4	92.7
IV 1000	68.1	84.0	86.6	89.3	90.4	90.8	91.5	91.8	91.8	92.0	92.0	92.2	92.2	92.4	92.7	93.0
IV 900	68.1	84.1	86.8	89.6	90.8	91.2	91.9	92.3	92.3	92.6	92.7	92.7	92.9	92.9	93.3	93.6
IV 800	68.1	84.3	87.1	90.0	91.1	91.5	92.4	92.9	92.9	93.3	93.4	93.4	93.6	93.6	93.9	94.2
IV 700	68.1	84.3	87.3	90.3	91.5	92.0	92.9	93.5	93.6	94.0	94.1	94.1	94.3	94.3	94.6	95.0
IV 600	68.2	84.5	87.5	90.6	91.9	92.4	93.4	94.1	94.2	94.6	94.7	94.7	94.9	94.9	95.3	95.6
IV 500	68.2	84.6	87.7	91.1	92.4	92.8	94.0	94.8	95.0	95.5	95.6	95.6	95.8	95.8	96.2	96.5
IV 400	68.2	84.6	87.7	91.1	92.5	93.0	94.2	95.1	95.3	95.9	96.1	96.1	96.4	96.4	96.8	97.1
IV 300	68.2	84.6	87.7	91.1	92.6	93.1	94.4	95.4	95.6	96.3	96.6	96.6	97.0	97.0	97.6	98.0
IV 200	68.2	84.6	87.7	91.2	92.7	93.2	94.5	95.6	95.8	96.6	97.1	97.1	97.6	97.6	98.4	99.0
IV 100	68.2	84.6	87.7	91.2	92.7	93.2	94.5	95.6	95.8	96.7	97.2	97.2	97.8	97.8	98.6	99.8
IV 0	68.2	84.6	87.7	91.2	92.7	93.2	94.5	95.6	95.8	96.7	97.2	97.2	97.8	97.8	98.6	99.8

TOTAL NUMBER OF OBSERVATIONS 5205

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION
PORTLAND IAP OR

STATION NAME
PORTLAND IAP OR

YEARS
73-79

MONTH
NOV

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

FORM 0-14-5
(REV 11-71)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥8	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	24.3	26.3	26.8	27.3	27.9	27.9	28.4	26.6	28.7	29.0	29.0	29.0	29.7	29.7	31.2	30.8
≥ 20000	27.4	29.2	29.7	31.2	31.8	30.8	31.3	31.4	31.6	31.9	31.9	31.9	32.5	32.5	33.0	33.7
≥ 18000	27.6	29.7	31.3	31.8	31.4	31.4	31.9	32.1	32.2	32.5	32.5	32.5	33.3	33.3	34.0	34.6
≥ 16000	27.6	29.7	31.3	31.8	31.4	31.4	31.9	32.1	32.2	32.7	32.7	32.7	33.5	33.5	34.1	34.8
≥ 14000	28.9	31.1	31.4	32.1	32.7	32.7	33.2	33.3	33.5	34.1	34.1	34.1	34.8	34.8	35.4	36.0
≥ 12000	29.7	31.7	32.4	32.9	33.5	33.5	34.1	34.1	34.3	34.8	34.8	34.8	35.6	35.6	36.2	36.8
≥ 10000	30.3	32.7	33.3	34.0	34.6	34.6	35.1	35.2	35.4	35.9	35.9	35.9	36.7	36.7	37.3	37.9
≥ 9000	31.0	33.3	34.0	34.6	35.2	35.2	35.7	35.9	36.1	36.5	36.5	36.5	37.3	37.3	37.9	38.6
≥ 8000	32.2	34.8	35.4	36.0	36.7	36.7	37.1	37.3	37.5	37.9	37.9	37.9	38.7	38.7	39.4	40.0
≥ 7000	35.7	38.7	39.4	41.2	40.8	40.8	41.3	41.4	41.9	42.4	42.4	42.4	43.2	43.2	43.8	44.4
≥ 6000	39.7	42.1	42.7	43.5	44.1	44.1	44.6	44.8	45.2	45.7	45.7	45.7	46.5	46.5	47.1	47.8
≥ 5000	41.3	45.4	46.1	46.8	47.5	47.5	47.9	48.1	48.6	49.3	49.2	49.2	50.1	50.1	50.6	51.3
≥ 4500	44.1	48.9	49.5	51.3	51.0	51.0	51.4	51.6	52.2	52.7	52.9	52.9	53.7	53.7	54.3	54.9
≥ 4000	48.1	54.3	55.1	55.9	56.7	56.7	57.1	57.3	58.1	58.7	58.9	58.9	59.7	59.7	60.3	61.0
≥ 3500	50.6	57.9	58.7	59.5	60.3	60.3	60.8	61.1	61.9	62.5	62.7	62.7	63.5	63.5	64.1	64.8
≥ 3000	55.7	64.4	65.6	66.3	67.1	67.1	67.6	67.9	68.7	69.4	69.5	69.5	71.3	71.3	71.9	72.6
≥ 2500	57.5	67.8	69.8	70.6	71.4	71.4	71.9	72.2	73.0	73.7	73.8	73.8	74.6	74.6	75.2	75.9
≥ 2000	59.4	71.8	73.3	74.8	75.6	75.9	76.3	76.7	77.5	78.1	78.3	78.3	79.0	79.2	79.8	80.5
≥ 1800	59.7	71.7	74.3	75.7	76.5	76.8	77.5	77.8	78.6	79.2	79.4	79.4	80.2	80.3	81.0	81.6
≥ 1500	61.6	73.5	76.3	77.9	78.9	79.2	79.8	80.2	81.0	81.6	81.7	81.7	82.5	82.7	83.3	84.0
≥ 1200	61.7	76.1	79.7	81.3	82.4	82.7	83.3	83.7	84.4	85.1	85.2	85.2	86.0	86.2	86.8	87.5
≥ 1000	62.1	77.6	81.3	83.5	84.6	85.1	85.9	86.2	87.1	87.6	87.8	87.8	88.6	88.7	89.4	90.0
≥ 900	62.2	77.8	81.4	83.9	84.9	85.4	86.2	86.5	87.3	87.9	88.1	88.1	88.9	89.3	89.7	90.3
≥ 800	62.3	78.1	81.7	84.1	85.2	85.7	86.5	86.8	87.6	88.3	88.4	88.4	89.2	89.4	90.0	90.6
≥ 700	62.2	78.9	83.0	85.6	86.7	87.1	87.9	88.3	89.1	89.7	89.8	89.8	90.6	90.8	91.4	92.1
≥ 600	62.2	78.9	83.2	85.7	86.8	87.3	88.1	88.4	89.2	89.8	90.0	90.0	90.8	91.1	91.6	92.2
≥ 500	62.2	78.9	83.2	85.9	87.5	87.9	88.7	89.0	89.9	90.5	90.8	90.8	91.7	91.9	92.5	93.3
≥ 400	62.2	79.1	83.3	86.3	87.9	88.4	89.2	89.5	90.3	91.0	91.4	91.4	92.4	92.5	93.2	94.0
≥ 300	62.2	79.1	83.5	86.7	88.3	88.9	89.8	90.2	91.0	91.6	92.2	92.2	93.3	93.5	94.1	94.9
≥ 200	62.2	79.1	83.5	86.7	88.4	89.1	90.1	90.5	91.3	92.4	93.2	93.2	94.4	94.6	95.4	96.3
≥ 100	62.2	79.1	83.5	86.7	88.4	89.1	90.2	90.6	91.4	92.7	93.7	93.7	95.1	95.2	96.3	97.0
≥ 0	62.2	79.1	83.5	86.7	88.4	89.1	90.2	90.6	91.4	92.7	93.7	93.7	95.1	95.2	96.3	97.0

TOTAL NUMBER OF OBSERVATIONS 634

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

21229
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

3100-0500
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING	9.0	21.4	21.9	22.5	23.2	23.2	23.3	23.5	23.7	24.3	24.4	24.4	24.4	24.4	26.0	27.0
≥ 20000	21.4	23.0	23.5	24.1	24.8	24.8	24.9	25.1	25.2	25.9	26.0	26.0	26.0	26.3	27.9	28.9
≥ 18000	21.4	23.0	23.5	24.1	24.8	24.8	24.9	25.1	25.2	25.9	26.0	26.0	26.0	26.3	28.3	29.2
≥ 16000	21.4	23.0	23.5	24.1	24.8	24.8	24.9	25.1	25.2	25.9	26.0	26.0	26.0	26.3	28.3	29.2
≥ 14000	21.4	23.5	24.0	24.6	25.2	25.2	25.4	25.6	25.7	26.3	26.5	26.5	26.5	26.8	28.7	29.7
≥ 12000	23.0	25.7	26.2	26.8	27.5	27.5	27.6	27.8	27.9	28.6	28.7	28.7	28.7	29.0	31.1	31.9
≥ 10000	24.4	27.0	27.6	28.3	29.9	28.9	29.0	29.2	29.4	30.2	30.3	30.3	30.3	30.6	32.5	33.5
≥ 9000	25.0	28.4	28.9	29.5	30.2	30.2	30.3	30.5	30.6	31.4	31.6	31.6	31.6	31.9	33.8	34.8
≥ 8000	25.0	28.6	29.2	29.8	30.5	30.5	30.6	30.8	31.0	31.7	31.9	31.9	31.9	32.2	34.1	35.1
≥ 7000	28.6	31.3	31.9	32.5	33.7	33.7	33.8	34.0	34.1	34.9	35.1	35.1	35.1	35.4	37.3	38.3
≥ 6000	32.7	36.0	36.7	37.3	38.6	38.6	38.7	38.9	39.0	39.8	40.0	40.0	40.0	40.3	42.2	43.2
≥ 5000	34.6	38.9	39.5	40.2	40.6	41.6	41.7	41.9	42.1	42.9	43.0	43.0	43.0	43.3	45.2	46.2
≥ 4500	37.0	42.4	43.0	43.7	45.1	45.1	45.2	45.4	45.6	46.3	46.5	46.5	46.5	46.8	48.7	49.7
≥ 4000	41.1	47.0	47.6	48.3	49.7	49.7	49.8	50.0	50.2	51.1	51.4	51.4	51.4	51.7	53.7	54.6
≥ 3500	44.3	51.0	51.6	52.4	53.8	53.8	54.0	54.1	54.3	55.2	55.6	55.6	55.6	55.9	57.8	58.7
≥ 3000	47.8	55.0	56.8	57.9	59.4	59.4	59.5	59.7	60.0	61.0	61.3	61.3	61.3	61.6	63.5	64.6
≥ 2500	50.0	61.0	62.4	63.5	64.9	65.2	65.2	65.4	65.7	66.7	67.0	67.0	67.0	67.3	69.2	70.3
≥ 2000	52.0	63.0	64.4	66.5	67.9	68.1	68.3	68.4	68.9	69.8	70.3	70.3	70.3	70.6	72.5	73.7
≥ 1800	53.8	64.6	66.0	68.1	69.5	69.7	70.0	70.2	70.6	71.6	72.1	72.1	72.1	72.4	74.3	75.4
≥ 1500	54.3	66.7	68.6	70.6	72.2	72.4	72.7	72.9	73.3	74.3	74.8	74.8	74.9	75.1	77.0	78.1
≥ 1200	55.6	66.9	71.4	73.7	75.2	75.4	75.7	75.9	76.3	77.3	77.8	77.8	77.8	78.1	80.0	81.1
≥ 1000	56.8	71.3	74.8	77.3	79.0	79.2	79.5	79.7	80.2	81.1	81.6	81.6	81.6	81.9	83.8	84.9
≥ 900	57.0	72.2	75.9	78.9	80.8	81.0	81.3	81.4	81.9	82.9	83.3	83.3	83.3	83.7	85.6	86.7
≥ 800	57.0	72.5	76.3	80.3	81.9	82.1	82.4	82.5	83.0	84.0	84.4	84.4	84.4	84.8	86.7	87.8
≥ 700	57.0	72.7	76.7	80.5	82.7	82.9	83.3	83.5	84.0	84.9	85.4	85.4	85.4	85.7	87.6	88.7
≥ 600	57.1	73.2	77.3	81.1	83.3	83.5	84.0	84.1	84.6	85.6	86.0	86.0	86.0	86.3	88.3	89.4
≥ 500	57.1	73.2	77.3	81.1	83.3	83.5	84.0	84.4	84.9	85.9	86.3	86.3	86.3	86.5	88.7	90.3
≥ 400	57.1	73.2	77.3	81.1	83.3	83.5	84.0	84.6	85.1	86.1	86.7	86.7	86.7	87.0	89.2	90.8
≥ 300	57.1	73.2	77.5	81.3	83.5	83.7	84.8	84.9	85.4	86.7	87.8	87.8	87.8	88.3	90.7	92.7
≥ 200	57.1	73.2	77.5	81.3	83.5	83.7	84.8	84.9	85.4	87.0	88.4	88.4	88.4	89.5	92.7	94.8
≥ 100	57.1	73.2	77.5	81.3	83.5	83.7	84.8	85.1	85.6	87.8	89.2	89.2	89.2	90.3	93.8	98.7
≥ 0	57.1	73.2	77.5	81.3	83.5	83.7	84.8	85.1	85.6	87.9	89.4	89.4	89.4	90.5	94.8	100.0

TOTAL NUMBER OF OBSERVATIONS 630

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

12-29
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1600-1800
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING	7.0	17.0	17.0	17.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
≥ 20000	18.0	19.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
≥ 18000	19.0	20.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
≥ 16000	20.0	21.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
≥ 14000	21.0	22.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
≥ 12000	22.0	23.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
≥ 10000	23.0	24.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
≥ 9000	24.0	25.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
≥ 8000	25.0	26.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
≥ 7000	26.0	27.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
≥ 6000	27.0	28.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥ 5000	28.0	29.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 4500	29.0	30.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 4000	30.0	31.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
≥ 3500	31.0	32.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
≥ 3000	32.0	33.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 2500	33.0	34.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
≥ 2000	34.0	35.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 1800	35.0	36.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 1500	36.0	37.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
≥ 1200	37.0	38.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥ 1000	38.0	39.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 900	39.0	40.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 800	40.0	41.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 700	41.0	42.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
≥ 600	42.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 500	43.0	44.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
≥ 400	44.0	45.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
≥ 300	45.0	46.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥ 200	46.0	47.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
≥ 100	47.0	48.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 0	48.0	49.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0

TOTAL NUMBER OF OBSERVATIONS 1600

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AD: WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR YEARS 13-79 MONTH NOV
PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	16.2	18.9	19.3	19.7	20.1	20.4	21.2	21.5	21.7	22.3	22.6	22.6	22.8	22.8	23.6	24.2
≥20000	16.7	24.8	25.6	26.1	26.4	26.8	27.5	27.9	28.1	28.8	29.1	29.1	29.3	29.3	31.1	31.7
≥18000	22.5	25.6	26.4	27.1	27.4	27.7	28.5	28.8	29.0	29.8	30.1	30.1	30.3	30.3	31.1	31.7
≥16000	22.5	25.6	26.4	27.1	27.4	27.7	28.5	28.8	29.0	29.8	30.1	30.1	30.3	30.3	31.1	31.7
≥14000	23.2	27.5	28.3	29.3	29.6	30.4	30.9	31.1	31.8	32.2	32.2	32.3	32.3	32.3	33.1	33.8
≥12000	26.4	30.1	31.1	31.7	32.1	32.3	33.1	33.6	33.8	34.6	34.9	34.9	35.1	35.1	35.8	36.5
≥10000	27.5	31.2	32.2	32.8	33.1	33.4	34.2	34.7	35.0	36.0	36.3	36.3	36.5	36.5	37.3	37.9
≥9000	29.0	32.8	33.8	34.6	35.0	35.4	36.1	36.6	36.9	37.9	38.2	38.2	38.4	38.4	39.2	39.6
≥8000	31.1	33.9	34.9	35.8	36.5	36.8	37.6	38.1	39.4	39.3	39.6	39.6	39.8	39.8	41.6	41.2
≥7000	31.5	35.4	36.5	37.4	38.1	38.4	39.2	39.8	40.1	41.1	41.4	41.4	41.6	41.6	42.4	43.0
≥6000	35.0	38.9	40.0	40.9	41.6	41.9	42.8	43.5	43.8	44.7	45.1	45.1	45.2	45.2	46.0	46.7
≥5000	38.4	42.4	43.5	44.4	45.1	45.4	46.3	47.0	47.3	48.2	48.6	48.6	48.7	48.7	49.5	50.2
≥4500	41.9	45.9	46.7	47.6	48.2	48.6	49.5	50.2	50.5	51.4	51.8	51.8	51.9	51.9	52.7	53.3
≥4000	43.5	48.1	49.4	50.3	51.0	51.3	52.2	52.9	53.2	54.1	54.5	54.5	54.6	54.6	55.4	56.1
≥3500	47.0	51.0	52.2	53.7	54.5	54.8	55.7	56.4	56.7	57.6	58.0	58.0	58.1	58.1	58.9	59.6
≥3000	49.4	54.9	56.2	58.0	58.9	59.2	60.2	61.0	61.3	62.4	62.7	62.7	62.9	62.9	63.7	64.3
≥2500	54.5	60.4	61.6	63.4	64.5	64.8	65.8	66.6	66.9	68.0	68.3	68.3	68.5	68.5	69.3	69.9
≥2000	56.8	63.2	64.6	66.7	67.8	68.2	69.1	69.9	70.2	71.3	71.7	71.7	71.8	71.8	72.6	73.2
≥1800	57.1	63.7	65.3	67.4	68.6	68.9	69.9	70.7	71.0	72.1	72.5	72.5	72.6	72.6	73.4	74.0
≥1500	59.2	67.5	69.4	71.5	73.1	73.4	74.4	75.2	75.5	76.6	76.9	76.9	77.1	77.1	77.9	78.5
≥1200	61.3	71.2	73.6	76.1	77.7	78.5	79.1	79.9	80.3	81.4	81.7	81.7	81.8	81.8	82.6	83.3
≥1000	62.4	73.2	75.8	78.7	80.4	80.7	81.7	82.6	83.1	84.1	84.4	84.4	84.6	84.6	85.4	86.1
≥900	61.9	74.1	76.9	79.9	81.8	82.2	83.1	84.1	84.4	85.5	85.8	85.8	86.0	86.0	86.8	87.4
≥800	62.3	74.2	77.1	80.7	83.0	83.3	84.4	85.5	85.8	86.9	87.3	87.3	87.4	87.4	88.2	89.0
≥700	61.7	74.5	77.4	81.2	83.8	84.1	85.2	86.3	86.6	87.7	88.1	88.1	88.2	88.2	89.0	89.6
≥600	62.1	74.5	77.4	81.2	83.9	84.2	85.4	86.5	86.8	87.9	88.2	88.2	88.4	88.4	89.2	90.0
≥500	62.1	74.5	77.4	81.2	83.9	84.4	85.8	86.9	87.3	88.7	89.1	89.0	89.2	89.2	90.0	90.8
≥400	62.1	74.7	77.5	81.5	84.4	85.0	87.1	88.5	88.9	90.6	91.2	91.2	91.4	91.4	92.4	93.2
≥300	62.1	74.7	77.5	81.5	84.4	85.0	87.3	88.9	89.3	91.4	92.2	92.2	92.5	92.5	93.5	94.4
≥200	62.1	74.7	77.5	81.5	84.4	85.0	87.3	88.9	89.3	92.0	93.2	93.2	93.6	93.6	95.1	96.3
≥100	62.1	74.7	77.5	81.5	84.4	85.0	87.3	88.9	89.3	92.0	93.2	93.2	93.8	93.8	95.9	99.4
≥0	62.1	74.7	77.5	81.5	84.4	85.0	87.3	88.9	89.3	92.0	93.2	93.2	93.9	93.9	96.2	100.0

TOTAL NUMBER OF OBSERVATIONS 628

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION
PORTLAND

PORTLAND IAP OR

STATION NAME

73-70

YEARS

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS UTC

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	24.6	27.6	28.9	29.7	30.3	30.3	30.6	31.1	31.1	31.6	31.6	31.6	31.6	31.6	31.6	31.6
≥ 20000	29.4	32.2	33.7	34.8	35.6	35.6	36.0	36.5	36.5	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 18000	29.7	32.5	34.1	35.2	36.0	36.0	36.5	37.1	37.1	37.6	37.8	37.8	37.8	37.8	37.8	37.8
≥ 16000	29.8	32.7	34.3	35.4	36.2	36.2	36.7	37.3	37.3	37.8	37.9	37.9	37.9	37.9	37.9	37.9
≥ 14000	32.1	35.6	37.1	38.3	39.0	39.0	39.5	41.2	43.2	44.6	40.8	40.8	40.8	40.8	40.8	40.8
≥ 12000	34.8	38.4	40.7	41.1	41.9	41.9	42.4	43.0	43.0	43.5	43.7	43.7	43.7	43.7	43.7	43.7
≥ 10000	37.6	41.3	42.9	44.3	44.9	44.9	45.6	46.5	46.5	47.0	47.1	47.1	47.1	47.1	47.1	47.1
≥ 9000	38.6	42.4	44.0	45.1	46.2	46.2	47.1	47.9	47.9	48.4	48.6	48.6	48.6	48.6	48.6	48.6
≥ 8000	39.5	43.3	44.9	46.0	47.1	47.1	47.9	48.9	48.9	49.4	49.5	49.5	49.5	49.5	49.5	49.5
≥ 7000	41.1	44.9	46.5	47.6	48.7	48.7	49.5	50.5	50.5	51.0	51.1	51.1	51.1	51.1	51.1	51.1
≥ 6000	43.4	47.0	48.6	49.7	50.8	50.8	51.6	52.5	52.5	53.0	53.2	53.2	53.2	53.2	53.2	53.2
≥ 5000	47.8	51.6	53.2	54.3	55.6	55.6	56.3	57.3	57.3	57.8	57.9	57.9	57.9	57.9	57.9	57.9
≥ 4500	49.8	53.7	55.2	56.3	57.6	57.6	58.4	59.4	59.4	59.8	60.0	60.0	60.0	60.0	60.0	60.0
≥ 4000	53.3	57.8	59.7	60.8	62.1	62.1	62.9	64.0	64.0	64.3	64.6	64.6	64.6	64.6	64.6	64.6
≥ 3500	56.2	60.6	62.5	63.8	65.1	65.1	65.9	67.1	67.1	67.6	67.8	67.8	67.8	67.8	67.8	67.8
≥ 3000	61.1	65.6	69.5	71.0	72.2	72.2	73.0	74.4	74.4	74.9	75.1	75.1	75.1	75.1	75.1	75.1
≥ 2500	65.4	73.2	75.1	76.7	77.9	77.9	78.7	81.2	81.2	81.6	81.8	81.8	81.8	81.8	81.8	81.8
≥ 2000	68.4	78.2	78.6	80.6	81.9	81.9	82.7	84.1	84.1	84.6	84.8	84.8	84.8	84.8	84.8	84.8
≥ 1800	69.1	77.5	79.8	81.9	83.2	83.2	84.1	85.6	85.6	86.0	86.2	86.2	86.2	86.2	86.2	86.2
≥ 1500	71.0	80.0	82.4	84.8	86.2	86.2	87.1	88.6	88.6	89.0	89.2	89.2	89.2	89.2	89.2	89.2
≥ 1200	72.5	84.4	87.3	90.0	91.6	91.9	93.0	94.8	94.8	95.4	95.6	95.6	95.6	95.6	95.6	95.6
≥ 1000	72.5	84.8	87.9	91.0	92.4	92.9	94.0	95.7	95.7	96.3	96.5	96.5	96.5	96.5	96.5	96.5
≥ 900	72.5	84.8	87.9	91.0	92.4	92.9	94.1	95.9	95.9	96.7	96.8	96.8	96.8	96.8	96.8	96.8
≥ 800	72.5	84.8	87.9	91.0	92.5	93.0	94.3	96.0	96.0	96.8	97.0	97.0	97.0	97.0	97.0	97.0
≥ 700	72.5	84.8	87.9	91.0	92.5	93.0	94.3	96.0	96.0	96.8	97.0	97.0	97.0	97.0	97.0	97.0
≥ 600	72.5	84.8	87.9	91.0	92.7	93.3	94.6	96.3	96.3	97.1	97.3	97.3	97.3	97.3	97.3	97.3
≥ 500	72.5	84.8	87.9	91.1	92.7	93.3	94.6	96.7	96.7	97.5	97.6	97.6	97.6	97.6	97.6	97.6
≥ 400	72.5	84.8	87.9	91.1	93.0	93.7	95.1	97.1	97.1	97.9	98.3	98.3	98.3	98.3	98.3	98.3
≥ 300	72.5	84.8	87.9	91.1	93.0	93.7	95.1	97.1	97.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	72.5	84.8	87.9	91.1	93.0	93.7	95.1	97.1	97.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	72.5	84.8	87.9	91.1	93.0	93.7	95.1	97.3	97.3	98.3	98.9	98.9	98.9	98.9	98.9	98.9
≥ 0	72.5	84.8	87.9	91.1	93.0	93.7	95.1	97.3	97.3	98.3	98.9	98.9	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS 630

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

73-79

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

500-1700
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥4	≥0
NO CEILING	24.6	28.3	29.7	29.8	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
≥ 20000	9.2	33.0	34.4	34.6	35.1	35.1	35.2	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
≥ 18000	29.5	33.5	34.9	35.1	35.7	35.7	35.9	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 16000	29.3	33.5	34.9	35.1	35.7	35.7	35.9	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 14000	22.2	36.7	38.1	38.3	38.9	38.9	39.0	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
≥ 12000	35.4	39.8	41.3	41.4	42.2	42.2	42.4	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
≥ 10000	37.8	42.7	44.3	44.3	45.1	45.1	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
≥ 9000	38.9	44.3	45.7	45.9	46.8	46.8	47.1	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 8000	40.3	46.3	47.5	47.6	48.6	48.6	48.9	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 7000	43.0	48.7	50.3	51.5	51.4	51.4	51.7	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 6000	46.1	51.9	53.5	53.7	54.6	54.6	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 5000	50.8	56.8	58.4	58.6	59.5	59.5	59.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 4500	52.7	59.4	61.1	61.3	62.2	62.2	62.5	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 4000	57.3	64.9	66.7	66.8	67.8	67.8	68.1	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 3500	59.8	68.3	71.3	71.8	71.7	72.1	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 3000	64.3	74.0	76.3	76.8	77.9	78.3	78.6	79.0	79.0	79.0	79.2	79.2	79.2	79.2	79.2	79.2
≥ 2500	68.4	79.0	82.1	82.9	84.0	84.3	84.6	85.2	85.2	85.2	85.4	85.4	85.4	85.4	85.4	85.4
≥ 2000	70.3	82.4	85.7	86.7	87.8	88.1	88.4	89.0	89.0	89.0	89.2	89.2	89.2	89.2	89.2	89.2
≥ 1800	71.8	83.3	86.7	87.6	88.7	89.0	89.4	90.0	90.0	90.0	90.2	90.2	90.2	90.2	90.2	90.2
≥ 1500	72.5	86.3	90.0	91.1	92.4	92.7	93.0	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8
≥ 1200	74.0	88.9	92.5	93.8	95.1	95.4	95.9	96.5	96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000	74.3	89.5	93.2	94.4	95.9	96.2	96.7	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5
≥ 900	74.3	89.5	93.2	94.4	95.9	96.2	96.7	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5
≥ 800	74.3	89.5	93.2	94.4	95.9	96.2	96.7	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5
≥ 700	74.3	89.5	93.2	94.4	95.9	96.2	96.7	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5
≥ 600	74.3	89.5	93.2	94.4	95.9	96.2	96.7	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5
≥ 500	74.3	89.5	93.2	94.4	95.9	96.2	96.7	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5
≥ 400	74.3	89.5	93.2	94.4	95.9	96.2	96.7	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5
≥ 300	74.3	89.5	93.2	94.4	95.9	96.2	96.7	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5
≥ 200	74.3	89.5	93.2	94.4	95.9	96.2	96.7	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5
≥ 100	74.3	89.5	93.2	94.4	95.9	96.2	96.7	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5
≥ 0	74.3	89.5	93.2	94.4	95.9	96.2	96.7	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5

TOTAL NUMBER OF OBSERVATIONS 532

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION 29 PORTLAND IAP OR

73-79

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1870-2000
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING	29.5	34.2	32.5	33.2	33.2	33.2	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
≥ 20000	33.7	36.7	37.1	37.9	38.1	38.3	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
≥ 18000	34.3	37.3	37.8	38.6	38.7	38.9	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
≥ 16000	34.3	37.3	37.8	38.6	38.7	38.9	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
≥ 14000	36.2	39.4	39.8	40.6	40.8	41.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 12000	37.4	42.7	43.2	44.0	44.3	44.4	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 10000	41.1	44.6	45.1	45.9	46.2	46.3	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
≥ 9000	42.1	45.9	45.9	46.7	47.0	47.1	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
≥ 8000	44.4	47.9	48.7	49.5	49.8	50.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 7000	48.6	52.5	53.3	54.1	54.4	54.6	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
≥ 6000	49.7	53.8	54.6	55.4	55.7	55.9	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 5000	51.9	56.2	57.0	57.8	58.1	58.3	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥ 4500	56.4	61.1	61.7	62.5	62.9	63.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 4000	58.3	67.1	68.1	68.9	69.2	69.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 3500	64.0	71.1	71.9	72.7	73.0	73.2	73.7	73.7	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8
≥ 3000	68.3	76.5	77.6	78.6	78.9	79.1	79.5	79.5	79.5	79.5	79.7	79.7	79.7	79.7	79.7	79.7
≥ 2500	71.1	81.0	82.9	84.0	84.3	84.4	84.9	84.9	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.1
≥ 2000	72.5	83.5	85.4	86.5	86.8	87.0	87.6	87.6	87.6	87.6	87.8	87.8	87.8	87.8	87.8	87.8
≥ 1800	72.9	84.4	86.5	87.6	88.2	88.3	88.9	88.9	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1500	74.3	86.7	88.9	90.2	90.6	90.8	91.4	91.4	91.4	91.4	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1200	74.6	87.9	91.3	92.9	93.3	93.5	94.3	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4
≥ 1000	74.8	88.3	92.5	94.1	94.6	94.8	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7
≥ 900	74.8	88.4	92.9	94.4	94.9	95.1	95.9	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0
≥ 800	74.8	88.6	93.0	94.6	95.1	95.2	96.0	96.0	96.0	96.0	96.2	96.3	96.3	96.3	96.3	96.3
≥ 700	74.8	88.6	93.0	94.6	95.1	95.2	96.0	96.0	96.0	96.0	96.2	96.3	96.3	96.3	96.3	96.3
≥ 600	74.8	88.6	93.0	94.6	95.1	95.2	96.0	96.0	96.0	96.0	96.2	96.3	96.3	96.3	96.3	96.3
≥ 500	74.8	88.6	93.0	95.1	95.7	95.9	96.7	96.7	96.7	96.8	97.0	97.0	97.0	97.0	97.0	97.0
≥ 400	74.8	88.6	93.2	95.2	96.2	96.3	97.3	97.3	97.3	97.3	97.8	97.9	97.9	98.1	98.1	98.1
≥ 300	74.8	88.6	93.2	95.2	96.2	96.3	97.8	97.8	97.8	97.8	98.3	98.6	98.6	98.7	98.7	98.7
≥ 200	74.8	88.6	93.2	95.2	96.3	96.5	97.9	97.9	97.9	97.9	98.6	98.9	98.9	99.0	99.0	99.0
≥ 100	74.8	88.6	93.2	95.2	96.3	96.5	97.9	97.9	97.9	97.9	98.6	98.9	98.9	99.0	99.0	99.0
≥ 0	74.8	88.6	93.2	95.2	96.3	96.5	97.9	97.9	97.9	97.9	98.6	98.9	98.9	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS 631

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATTN: WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION 22 PORTLAND IAP OR

73-79

NOV

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

5110-2580
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING	29.5	31.4	32.1	32.5	33.0	33.5	34.1	34.3	34.7	34.3	34.3	34.3	34.3	34.4	34.4	34.6
≥20000	3.0	35.2	35.9	36.3	36.8	37.3	37.9	38.1	38.1	38.1	38.1	38.1	38.1	38.3	38.3	38.4
≥18000	33.8	36.0	36.7	37.1	37.6	38.1	38.7	38.9	38.9	38.9	38.9	38.9	38.9	39.0	39.0	39.2
≥16000	34.0	36.2	36.9	37.3	37.8	38.3	38.9	39.0	39.0	39.0	39.0	39.0	39.0	39.2	39.2	39.4
≥14000	39.9	37.1	37.8	38.4	38.9	39.4	40.0	40.2	40.2	40.2	40.2	40.2	40.2	40.3	40.3	40.5
≥12000	36.3	38.6	39.2	39.8	40.3	40.8	41.4	41.6	41.6	41.6	41.6	41.6	41.6	41.7	41.7	41.9
≥10000	38.1	40.3	41.1	41.7	42.2	42.7	43.3	43.5	43.5	43.5	43.5	43.5	43.5	43.7	43.7	43.8
≥9000	38.7	41.1	41.9	42.5	43.0	43.5	44.1	44.3	44.3	44.3	44.3	44.3	44.3	44.4	44.4	44.6
≥8000	40.2	42.9	43.8	44.6	45.1	45.6	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.5	46.5	46.7
≥7000	43.7	46.7	47.6	48.4	48.9	49.4	50.0	50.2	50.2	50.2	50.2	50.2	50.2	50.3	50.3	50.5
≥6000	45.4	49.3	50.7	50.8	51.3	51.7	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.7	52.7	52.9
≥5000	49.0	52.9	54.0	54.8	55.2	55.7	56.3	56.5	56.5	56.5	56.5	56.5	56.5	56.7	56.7	56.8
≥4500	51.1	55.9	57.0	57.8	58.3	58.7	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.7	59.7	59.8
≥4000	55.7	61.1	62.4	63.2	63.7	64.1	64.9	65.1	65.1	65.1	65.1	65.1	65.1	65.2	65.2	65.4
≥3500	59.8	66.0	67.5	68.3	68.7	69.2	70.0	70.2	70.2	70.2	70.2	70.2	70.2	70.3	70.3	70.5
≥3000	64.9	73.0	74.8	75.6	76.0	76.5	77.3	77.5	77.5	77.5	77.5	77.5	77.5	77.6	77.6	77.8
≥2500	67.3	76.7	78.7	79.5	80.3	80.8	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.9	81.9	82.1
≥2000	69.1	79.8	82.4	83.2	84.0	84.4	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.6	85.6	85.7
≥1800	69.8	81.3	84.4	85.2	86.0	86.5	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.6	87.6	87.8
≥1500	70.5	83.0	86.2	87.1	87.9	88.6	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.7	89.7	89.8
≥1200	71.0	84.1	87.6	88.6	89.4	90.0	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.1	91.1	91.3
≥1000	72.6	85.6	89.7	90.8	91.6	92.2	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.3	93.3	93.5
≥900	73.6	85.7	90.2	91.3	92.2	92.9	93.7	93.8	93.8	93.8	93.8	93.8	93.8	94.0	94.0	94.1
≥800	73.7	86.0	90.6	91.7	92.7	93.3	94.1	94.3	94.3	94.3	94.4	94.4	94.4	94.6	94.6	94.8
≥700	71.7	86.3	90.8	91.9	92.9	93.5	94.3	94.6	94.6	94.6	94.8	94.8	94.8	94.9	94.9	95.1
≥600	71.7	86.0	91.3	92.4	93.3	94.1	94.9	95.2	95.2	95.4	95.4	95.4	95.4	95.6	95.6	95.7
≥500	71.7	86.0	91.4	92.5	93.8	94.6	95.4	95.7	95.7	96.2	96.2	96.2	96.2	96.3	96.3	96.5
≥400	71.7	86.0	91.4	92.5	93.8	94.6	95.6	95.9	95.9	96.5	96.5	96.5	96.5	96.7	96.7	96.8
≥300	71.7	86.0	91.4	92.5	94.0	94.8	95.9	96.2	96.2	96.8	96.8	96.8	96.8	97.0	97.0	97.1
≥200	71.7	86.0	91.4	92.5	94.1	94.9	96.2	96.5	96.7	97.6	97.6	97.6	97.6	97.8	97.8	98.3
≥100	71.7	86.0	91.4	92.5	94.1	94.9	96.2	96.5	96.7	97.6	97.6	97.6	97.6	98.1	98.1	98.9
≥0	71.7	86.0	91.4	92.5	94.1	94.9	96.2	96.5	96.7	97.6	97.6	97.6	97.6	98.1	98.1	98.9

TOTAL NUMBER OF OBSERVATIONS 67

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

29
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	23.1	25.4	26.7	25.6	27.0	27.1	27.5	27.6	27.7	28.0	28.1	28.1	28.3	28.3	28.8	29.3
≥ 20000	26.7	29.2	30.0	30.5	31.0	31.2	31.6	31.8	31.8	32.1	32.2	32.2	32.4	32.5	32.9	33.5
≥ 18000	27.0	29.7	30.5	31.1	31.6	31.7	32.1	32.3	32.4	32.7	32.8	32.8	33.0	33.1	33.6	34.2
≥ 16000	27.2	29.8	31.6	31.1	31.7	31.8	32.2	32.4	32.5	32.8	32.9	32.9	33.1	33.1	33.7	34.3
≥ 14000	28.8	31.6	32.4	32.9	33.5	33.6	34.0	34.2	34.3	34.6	34.7	34.7	35.0	35.0	35.6	36.1
≥ 12000	33.9	33.8	34.0	35.2	35.8	35.9	36.3	36.5	36.6	36.9	37.1	37.1	37.3	37.3	37.9	38.5
≥ 10000	32.7	35.7	36.6	37.2	37.8	37.9	38.4	38.6	38.7	39.1	39.2	39.2	39.4	39.5	40.1	40.6
≥ 9000	33.6	36.9	37.7	38.4	39.2	39.1	39.6	39.9	39.9	40.3	40.4	40.4	40.7	40.7	41.3	41.8
≥ 8000	34.2	38.3	39.2	39.9	40.6	40.7	41.1	41.4	41.5	41.9	42.0	42.0	42.2	42.2	42.8	43.4
≥ 7000	37.5	41.0	42.0	42.7	43.4	43.6	44.0	44.3	44.4	44.8	44.9	44.9	45.2	45.2	45.8	46.3
≥ 6000	40.1	43.9	44.9	45.6	46.3	46.5	47.0	47.3	47.4	47.8	47.9	47.9	48.1	48.1	48.7	49.3
≥ 5000	43.4	47.6	48.6	49.3	50.2	50.3	50.8	51.1	51.2	51.6	51.7	51.7	51.9	52.0	52.6	53.1
≥ 4500	46.2	50.6	51.6	52.4	53.3	53.4	53.9	54.2	54.3	54.7	54.8	54.8	55.0	55.1	55.7	56.2
≥ 4000	51.0	55.4	56.6	57.3	58.2	58.3	58.9	59.2	59.3	59.7	59.9	59.9	60.1	60.2	60.8	61.3
≥ 3500	53.1	59.1	60.3	61.3	62.2	62.4	62.9	63.3	63.4	63.8	64.0	64.0	64.2	64.3	64.9	65.4
≥ 3000	57.3	64.8	66.2	67.3	68.2	68.4	68.9	69.4	69.6	70.0	70.2	70.2	70.4	70.5	71.1	71.6
≥ 2500	61.6	69.5	71.3	72.5	73.5	73.7	74.2	74.7	74.9	75.3	75.5	75.5	75.7	75.8	76.4	77.0
≥ 2000	62.5	72.1	74.2	75.8	76.8	77.0	77.6	78.0	78.2	78.7	78.9	78.9	79.2	79.2	79.8	80.4
≥ 1800	53.1	73.2	75.4	77.0	78.0	78.2	78.9	79.4	79.6	80.0	80.2	80.2	80.5	80.5	81.1	81.7
≥ 1500	64.5	75.8	78.2	79.9	81.1	81.4	82.0	82.5	82.7	83.2	83.4	83.4	83.6	83.7	84.3	84.9
≥ 1200	65.6	78.3	81.2	83.3	84.5	84.8	85.5	86.1	86.3	86.7	87.0	87.1	87.2	87.3	87.9	88.4
≥ 1000	66.0	79.8	83.2	85.4	86.8	87.1	87.8	88.4	88.6	89.1	89.3	89.3	89.5	89.6	90.2	90.8
≥ 900	66.2	80.2	83.7	86.0	87.4	87.8	88.5	89.1	89.3	89.8	90.0	90.0	90.2	90.3	90.9	91.5
≥ 800	66.3	80.4	84.1	86.5	87.9	88.2	89.0	89.6	89.8	90.3	90.6	90.6	90.8	90.8	91.4	92.0
≥ 700	66.3	80.5	84.3	86.9	88.4	88.7	89.5	90.1	90.3	90.9	91.1	91.1	91.3	91.4	92.0	92.6
≥ 600	66.3	80.6	84.5	87.2	88.7	89.0	89.9	90.5	90.7	91.2	91.4	91.4	91.7	91.8	92.4	93.0
≥ 500	66.3	80.7	84.6	87.3	89.0	89.4	90.3	90.9	91.1	91.8	92.0	92.0	92.4	92.4	93.0	93.7
≥ 400	66.3	80.7	84.7	87.6	89.4	89.8	90.9	91.6	91.8	92.6	93.0	93.0	93.6	93.6	94.1	94.8
≥ 300	66.3	80.7	84.7	87.7	89.5	90.0	91.2	92.0	92.3	93.3	93.6	93.8	94.4	94.5	95.2	96.1
≥ 200	66.3	80.7	84.7	87.7	89.6	90.0	91.3	92.2	92.4	93.7	94.4	94.4	95.1	95.2	96.2	97.3
≥ 100	66.3	80.7	84.7	87.7	89.6	90.0	91.4	92.2	92.5	93.9	94.6	94.6	95.4	95.6	96.9	99.5
≥ 0	66.3	80.7	84.7	87.7	89.6	90.0	91.4	92.2	92.5	93.9	94.6	94.6	95.5	95.6	97.0	100.0

TOTAL NUMBER OF OBSERVATIONS 5138

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

73-79

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

000-0000
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING	15.6	16.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	18.1	18.6	18.6	19.2	19.4	20.7	21.5
≥ 20000	18.4	19.2	19.7	20.1	20.1	20.1	20.1	20.1	20.1	20.7	21.2	21.2	21.8	22.0	22.6	24.3
≥ 18000	18.4	19.2	19.7	20.1	20.1	20.1	20.1	20.1	20.1	20.7	21.2	21.2	21.8	22.0	22.6	24.3
≥ 16000	18.4	19.2	19.7	20.1	20.1	20.1	20.1	20.1	20.1	20.7	21.2	21.2	21.8	22.0	22.6	24.3
≥ 14000	19.7	20.9	21.4	21.8	21.8	21.8	21.8	21.8	21.8	22.4	22.9	22.9	23.5	23.7	24.3	26.0
≥ 12000	19.7	20.9	21.4	21.8	21.8	21.8	21.8	21.8	21.8	22.4	22.9	22.9	23.5	23.7	24.3	26.0
≥ 10000	22.3	23.8	24.3	24.7	24.7	24.7	24.7	24.7	24.7	25.3	25.8	25.8	26.4	26.6	27.2	29.0
≥ 9000	23.7	25.5	26.1	26.6	26.6	26.6	26.6	26.6	26.6	27.2	27.6	27.6	28.3	28.4	29.0	31.9
≥ 8000	24.3	25.8	26.4	27.0	27.0	27.0	27.0	27.0	27.0	27.6	28.1	28.1	28.7	28.9	29.5	32.3
≥ 7000	25.7	27.5	28.1	28.7	28.7	28.7	28.7	28.7	28.7	29.3	29.8	29.8	30.4	30.6	31.2	33.9
≥ 6000	29.1	30.0	30.6	31.2	31.2	31.2	31.2	31.2	31.7	31.8	32.3	32.3	32.9	33.1	33.6	35.5
≥ 5000	32.9	35.2	35.8	36.4	36.4	36.4	36.6	36.6	36.6	37.2	37.6	37.6	38.2	38.4	39.0	40.9
≥ 4500	36.7	39.2	39.8	40.4	40.4	40.4	40.6	40.6	40.6	41.2	41.6	41.6	42.2	42.4	43.0	44.9
≥ 4000	44.2	48.1	49.2	50.4	50.4	50.4	50.5	50.5	50.5	51.2	51.6	51.6	52.2	52.4	53.0	54.8
≥ 3500	47.8	51.9	53.1	54.4	54.4	54.4	54.5	54.5	54.5	55.1	55.6	55.6	56.2	56.4	57.0	59.0
≥ 3000	53.1	58.5	59.9	61.4	61.4	61.4	61.6	61.6	61.6	62.2	62.7	62.7	63.3	63.4	64.1	66.1
≥ 2500	55.5	62.8	64.5	66.4	66.4	66.4	66.5	66.5	66.5	67.1	67.6	67.6	68.2	68.4	69.0	71.0
≥ 2000	57.7	66.2	68.0	70.4	70.4	70.4	70.5	70.5	70.5	71.1	71.6	71.6	72.2	72.4	73.0	75.0
≥ 1800	57.9	68.4	70.2	72.5	72.5	72.5	72.7	72.7	72.7	73.3	73.7	73.7	74.3	74.5	75.1	77.1
≥ 1500	59.1	69.9	72.0	74.5	74.7	74.7	74.8	74.8	74.8	75.4	75.9	75.9	76.5	76.7	77.3	79.3
≥ 1200	61.1	73.1	75.9	78.5	79.8	79.8	79.9	79.9	79.9	79.6	80.0	80.0	80.6	80.8	81.4	83.4
≥ 1000	61.9	74.7	78.3	81.3	82.2	82.2	82.3	82.3	82.3	82.9	83.4	83.4	84.0	84.2	84.8	86.8
≥ 900	62.1	75.9	79.7	83.1	84.0	84.0	84.2	84.2	84.2	84.8	85.3	85.3	85.9	86.0	86.6	88.6
≥ 800	62.2	76.2	80.0	83.9	84.8	84.8	85.1	85.1	85.1	85.7	86.2	86.2	86.8	86.9	87.5	89.6
≥ 700	62.2	76.2	80.0	84.0	84.9	84.9	85.3	85.3	85.3	85.9	86.3	86.3	86.9	87.1	87.7	89.7
≥ 600	62.2	76.2	80.0	84.3	85.3	85.3	85.6	85.6	85.6	86.2	86.6	86.6	87.3	87.4	88.0	90.0
≥ 500	62.2	76.2	80.6	84.6	86.2	86.2	86.5	86.5	86.5	87.1	87.6	87.6	88.2	88.3	88.9	90.9
≥ 400	62.2	76.2	80.8	84.9	86.5	86.5	87.1	87.1	87.1	88.0	88.5	88.5	89.1	89.2	89.9	92.0
≥ 300	62.2	76.2	81.0	85.1	87.3	87.3	87.9	87.9	87.9	88.9	89.4	89.4	90.0	90.1	90.7	92.7
≥ 200	62.2	76.2	81.0	85.3	87.4	87.4	88.0	88.0	88.0	89.0	89.5	89.5	90.1	90.2	90.8	92.8
≥ 100	62.2	76.2	81.0	85.3	87.4	87.4	88.0	88.0	88.0	89.0	89.5	89.5	90.1	90.2	90.8	92.8
≥ 0	62.2	76.2	81.0	85.3	87.4	87.4	88.0	88.0	88.0	89.0	89.5	89.5	90.1	90.2	90.8	92.8

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
ATMOSPHERIC SERVICE/HAC

CEILING VERSUS VISIBILITY

21 PORTLAND IAP OR

73-79

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1900-1950
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	12.7	13.4	13.7	14.6	14.9	14.9	15.2	15.2	15.7	15.4	15.4	15.4	15.4	15.7	15.7	16.3
≥ 20000	14.1	14.6	14.9	15.8	16.3	16.3	16.6	16.6	16.6	16.7	16.7	16.7	16.7	17.1	17.1	17.8
≥ 18000	14.3	14.9	15.2	16.1	16.6	16.6	16.9	16.9	16.9	17.1	17.1	17.1	17.1	17.4	17.4	18.1
≥ 16000	14.3	14.9	15.2	16.1	16.6	16.6	16.9	16.9	16.9	17.1	17.1	17.1	17.1	17.4	17.4	18.1
≥ 14000	14.7	15.4	15.7	16.6	17.1	17.1	17.4	17.4	17.4	17.5	17.5	17.5	17.5	17.8	17.8	18.6
≥ 12000	15.4	16.0	16.3	17.2	17.7	17.7	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.4	18.4	19.2
≥ 10000	17.4	18.1	18.3	19.4	19.8	19.8	20.1	20.1	20.1	20.3	20.3	20.3	20.3	20.6	20.6	21.4
≥ 9000	18.1	19.2	19.5	20.6	21.0	21.0	21.4	21.4	21.4	21.5	21.5	21.5	21.5	21.8	21.8	22.6
≥ 8000	19.2	20.3	20.6	21.8	22.3	22.3	22.7	22.7	22.7	22.9	22.9	22.9	22.9	23.2	23.2	24.1
≥ 7000	20.4	23.5	23.8	25.0	25.5	25.5	26.0	26.0	26.0	26.1	26.1	26.1	26.1	26.4	26.4	27.2
≥ 6000	25.3	26.4	26.9	28.1	28.6	28.6	29.0	29.0	29.0	29.2	29.2	29.2	29.2	29.5	29.5	30.3
≥ 5000	31.6	33.3	33.8	35.1	35.5	35.5	35.9	35.9	35.9	36.3	36.3	36.3	36.3	36.6	36.6	37.3
≥ 4500	34.3	36.3	36.7	37.9	38.4	38.4	38.9	38.9	38.9	39.2	39.2	39.2	39.2	39.5	39.5	40.2
≥ 4000	42.7	45.8	46.4	47.6	48.1	48.1	48.5	48.5	48.5	48.8	48.8	48.8	48.8	49.2	49.2	49.9
≥ 3500	45.1	48.7	49.5	50.7	51.2	51.2	51.6	51.6	51.6	51.9	51.9	51.9	51.9	52.2	52.2	53.1
≥ 3000	50.4	56.2	57.1	58.4	58.8	58.8	59.3	59.3	59.3	59.6	59.6	59.6	59.6	59.9	59.9	60.8
≥ 2500	54.2	60.8	61.9	63.1	63.6	63.6	64.1	64.1	64.1	64.4	64.4	64.4	64.4	64.7	64.7	65.6
≥ 2000	55.9	63.9	65.3	66.7	67.1	67.1	67.6	67.6	67.6	67.9	67.9	67.9	67.9	68.2	68.2	69.3
≥ 1800	56.3	65.4	66.8	68.2	68.7	68.7	69.1	69.1	69.1	69.4	69.4	69.4	69.4	69.7	69.7	70.8
≥ 1500	58.4	68.4	69.7	71.6	72.0	72.0	72.5	72.5	72.5	72.8	72.8	72.8	72.8	73.1	73.1	74.2
≥ 1200	60.5	71.4	73.3	76.5	76.7	76.7	77.1	77.1	77.1	77.7	77.7	77.7	77.7	78.1	78.1	79.1
≥ 1000	61.1	73.1	75.4	78.3	79.7	79.7	79.9	79.9	79.9	79.6	79.6	80.3	80.3	80.6	80.6	81.7
≥ 900	61.3	73.7	76.3	79.3	79.9	79.9	80.3	80.5	80.5	81.3	81.3	81.3	81.3	81.6	81.6	82.8
≥ 800	61.1	74.3	77.1	80.2	81.3	81.3	81.9	82.2	82.2	82.9	82.9	82.9	82.9	83.3	83.3	84.5
≥ 700	61.3	74.8	77.9	81.1	82.2	82.2	82.8	83.1	83.1	83.9	83.9	83.9	83.9	84.2	84.2	85.4
≥ 600	61.3	74.8	78.1	81.4	82.6	82.6	83.7	84.2	84.2	84.9	84.9	84.9	84.9	85.4	85.4	86.6
≥ 500	61.3	75.1	78.6	82.2	83.6	83.6	84.8	85.3	85.3	86.1	86.1	86.1	86.1	86.5	86.5	87.7
≥ 400	61.3	75.1	79.1	82.9	84.5	84.5	85.7	86.2	86.2	87.1	87.1	87.1	87.1	87.7	87.7	88.9
≥ 300	61.3	75.1	79.1	83.1	84.9	84.9	86.9	87.9	88.1	89.2	89.7	89.7	89.7	90.8	90.8	93.5
≥ 200	61.3	75.1	79.1	83.1	84.9	84.9	86.9	87.9	88.1	89.2	89.7	89.7	89.7	90.8	90.8	93.5
≥ 100	61.3	75.1	79.1	83.3	85.1	85.1	87.3	88.2	88.3	89.6	90.0	90.0	90.0	91.4	91.4	95.1
≥ 0	61.3	75.1	79.1	83.3	85.1	85.1	87.3	88.2	88.3	89.6	90.0	90.0	90.0	91.7	91.7	95.5

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

STATION 120 PORTLAND IAP OR

73-79

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

673-7800
HOURS - 311

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING	13.3	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.5	14.5	15.4
≥ 20000	15.2	16.6	16.8	16.9	16.9	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.4	17.4	18.3
≥ 18000	16.2	16.6	16.8	16.9	16.9	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.4	17.4	18.3
≥ 16000	16.3	16.8	16.9	17.1	17.1	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.5	17.5	18.5
≥ 14000	17.1	17.5	17.7	17.8	17.8	18.1	18.1	18.1	18.1	18.2	18.2	18.2	18.2	18.5	18.5	19.4
≥ 12000	18.1	18.3	18.5	18.6	18.6	18.8	18.8	18.8	18.8	18.9	18.9	18.9	18.9	19.2	19.2	20.5
≥ 10000	18.5	19.1	19.2	19.4	19.4	19.5	19.5	19.5	19.5	19.7	19.7	19.7	19.7	20.0	20.0	21.2
≥ 9000	19.2	20.0	20.2	20.3	20.3	20.5	20.5	20.5	20.5	20.6	20.6	20.6	20.6	20.9	20.9	22.2
≥ 8000	20.8	20.8	20.9	21.1	21.1	21.2	21.2	21.2	21.2	21.4	21.4	21.4	21.4	21.7	21.7	22.9
≥ 7000	21.3	22.6	22.8	22.9	22.9	23.1	23.1	23.1	23.1	23.2	23.2	23.2	23.2	23.5	23.5	24.8
≥ 6000	26.4	27.4	27.5	27.7	27.7	27.8	27.8	27.8	27.8	28.1	28.1	28.1	28.1	28.3	28.3	29.5
≥ 5000	32.6	34.9	35.1	35.2	35.2	35.4	35.4	35.4	35.4	35.5	35.5	35.5	35.5	35.8	35.8	37.1
≥ 4500	38.5	38.3	38.6	38.8	38.8	38.9	39.1	39.1	39.1	39.2	39.2	39.2	39.2	39.5	39.5	41.5
≥ 4000	42.5	46.5	46.9	47.4	47.4	47.5	47.7	47.7	47.7	47.8	47.8	47.8	47.8	48.2	48.2	49.4
≥ 3500	45.2	51.6	51.2	51.7	51.7	51.8	52.0	52.0	52.0	52.2	52.2	52.2	52.2	52.5	52.5	53.4
≥ 3000	50.7	56.3	57.1	57.5	57.5	57.7	57.8	57.8	57.8	58.0	58.0	58.0	58.0	58.3	58.3	59.5
≥ 2500	62.9	61.9	61.7	62.2	62.2	62.3	62.5	62.5	62.5	62.6	62.6	62.6	62.6	62.9	62.9	63.8
≥ 2000	64.2	63.5	64.6	65.1	65.2	65.4	65.5	65.5	65.5	65.7	65.7	65.7	65.7	66.0	66.0	67.2
≥ 1800	64.6	65.1	66.2	66.6	66.8	66.9	67.1	67.1	67.1	67.2	67.2	67.2	67.2	67.5	67.5	68.5
≥ 1500	66.5	69.5	70.9	71.7	72.2	72.3	72.5	72.5	72.5	72.6	72.6	72.6	72.6	72.9	72.9	73.8
≥ 1200	57.7	71.8	73.5	74.5	75.1	75.2	75.4	75.4	75.4	75.5	75.5	75.5	75.5	75.8	75.8	76.8
≥ 1000	58.3	73.5	75.8	76.9	77.5	77.7	77.8	77.8	77.8	78.0	78.1	78.1	78.1	78.3	78.3	79.2
≥ 900	58.6	74.5	77.2	78.3	78.9	79.1	79.2	79.2	79.2	79.4	79.4	79.4	79.4	79.7	79.7	80.9
≥ 800	58.6	74.6	77.4	79.1	79.7	80.0	80.3	80.3	80.3	80.5	80.5	80.5	80.5	80.8	80.8	81.7
≥ 700	58.6	75.2	78.1	79.8	80.6	80.9	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.8	81.8	82.8
≥ 600	58.6	75.2	78.1	79.8	80.9	81.4	81.8	82.0	82.0	82.3	82.3	82.3	82.3	82.8	82.8	83.7
≥ 500	58.6	75.8	78.8	81.4	82.6	83.1	84.2	84.3	84.3	84.6	84.6	84.6	84.6	85.1	85.1	86.3
≥ 400	58.6	76.6	79.7	82.8	84.7	84.6	86.1	86.3	86.3	86.9	86.9	86.9	86.9	87.4	87.4	88.6
≥ 300	58.6	76.6	79.7	83.4	84.6	85.2	87.1	87.4	87.4	88.1	88.1	88.1	88.1	88.9	88.9	90.6
≥ 200	58.6	76.6	79.7	83.5	84.9	85.5	88.1	88.6	88.6	89.5	89.5	89.5	89.5	91.7	91.7	93.8
≥ 100	58.6	76.6	79.7	83.5	84.9	85.5	88.2	88.8	88.8	89.7	89.7	89.7	89.7	92.6	92.6	96.0
≥ 0	58.6	76.6	79.7	83.5	84.9	85.5	88.2	88.8	88.8	89.7	89.7	89.7	89.7	92.6	92.6	96.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

YEARS 73-79

MONTH DEC

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1900-1999
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	13.5	14.3	14.6	15.2	15.5	15.5	15.7	16.0	16.0	16.3	16.3	16.3	16.4	16.6	16.9	17.5
≥ 20000	15.3	17.2	17.4	18.1	18.3	18.3	18.4	18.7	18.9	19.2	19.2	19.2	19.4	19.5	20.0	20.9
IV 18000	16.4	18.1	18.3	18.9	19.2	19.2	19.4	19.7	19.9	20.1	20.1	20.1	20.3	20.4	20.9	21.8
IV 16000	17.1	18.6	18.9	19.5	19.8	19.8	20.0	20.3	20.4	20.7	20.7	20.7	20.9	21.0	21.5	22.4
IV 14000	18.1	19.5	19.8	20.4	20.7	20.7	20.9	21.2	21.4	21.7	21.7	21.7	21.8	22.0	22.4	23.3
IV 12000	19.5	21.0	21.4	22.1	22.4	22.6	22.7	23.1	23.2	23.5	23.5	23.5	23.7	23.8	24.3	25.2
IV 10000	20.2	22.7	23.1	24.1	24.4	24.6	24.7	25.1	25.2	25.5	25.5	25.5	25.7	25.8	26.3	27.2
IV 9000	22.1	23.7	24.3	25.4	25.3	25.5	25.7	26.1	26.1	26.4	26.4	26.4	26.6	26.7	27.2	28.1
IV 8000	23.2	24.7	25.3	26.1	26.4	26.6	26.7	27.0	27.2	27.5	27.5	27.5	27.6	27.8	28.3	29.2
IV 7000	26.1	27.6	28.3	29.0	29.3	29.5	29.6	30.0	30.1	30.4	30.4	30.4	30.6	30.7	31.2	32.1
IV 6000	29.1	30.7	31.3	32.3	32.6	32.9	33.0	33.3	33.5	33.8	33.8	33.8	33.9	34.1	34.6	35.5
IV 5000	31.1	33.2	33.8	36.9	37.2	37.5	37.6	37.9	38.1	38.4	38.4	38.4	38.6	38.7	39.2	40.1
IV 4500	36.1	38.4	39.4	40.7	41.0	41.3	41.5	41.8	41.9	42.2	42.2	42.2	42.4	42.5	43.0	43.9
IV 4000	42.7	45.6	46.9	48.1	48.4	48.7	48.8	49.2	49.3	49.6	49.6	49.6	49.8	49.9	50.4	51.3
IV 3500	47.3	50.5	51.8	53.1	53.3	53.6	53.8	54.1	54.2	54.5	54.5	54.5	54.7	54.8	55.3	56.2
IV 3000	51.2	55.9	57.1	58.7	59.1	59.4	59.6	59.9	60.1	60.4	60.4	60.4	60.7	60.8	61.3	62.2
IV 2500	54.4	59.4	61.6	63.1	63.7	64.1	64.2	64.5	64.7	65.1	65.1	65.1	65.3	65.4	65.9	66.8
IV 2000	56.5	62.3	64.9	66.1	66.8	67.1	67.3	67.7	67.9	68.2	68.2	68.2	68.5	68.7	69.1	70.0
IV 1800	57.2	63.7	66.5	68.4	69.1	69.4	69.6	70.0	70.2	70.5	70.5	70.5	70.8	71.1	71.6	72.5
IV 1500	59.8	66.5	69.3	71.4	72.2	72.5	72.8	73.3	73.4	73.7	73.7	73.7	74.2	74.3	74.8	75.7
IV 1200	61.4	69.1	72.4	74.8	76.2	76.5	77.1	77.6	77.7	78.0	78.1	78.1	78.5	78.6	79.1	80.0
IV 1000	63.1	72.1	75.7	78.3	80.3	80.8	81.6	82.0	82.2	82.5	82.5	82.5	82.9	83.1	83.6	84.5
IV 900	63.1	72.4	76.3	79.1	81.1	81.6	82.3	82.8	82.9	83.3	83.3	83.3	83.7	83.9	84.3	85.3
IV 800	63.1	72.5	76.3	79.7	81.7	82.2	83.3	83.7	83.9	84.2	84.2	84.2	84.6	84.8	85.3	86.2
IV 700	63.1	72.5	76.4	80.2	82.2	82.6	84.2	84.6	84.8	85.1	85.1	85.1	85.6	85.7	86.2	87.1
IV 600	63.1	72.5	76.5	80.2	82.3	82.9	84.8	85.4	85.6	85.9	85.9	85.9	86.5	86.6	87.1	88.0
IV 500	63.1	72.5	76.7	80.3	82.9	83.6	85.7	86.5	86.6	87.1	87.3	87.3	88.0	88.2	88.8	89.9
IV 400	63.1	73.0	77.1	81.8	83.6	84.8	87.3	88.2	88.3	89.1	89.4	89.4	90.2	90.3	91.2	92.3
IV 300	63.1	73.0	77.1	81.8	83.9	85.3	88.2	89.4	89.9	91.7	92.3	92.3	93.2	93.4	94.3	95.9
IV 200	63.1	73.1	77.1	80.8	83.9	85.3	88.2	89.6	90.2	92.3	93.1	93.1	95.1	95.2	96.5	98.5
IV 100	63.1	73.1	77.1	80.8	83.9	85.3	88.2	89.6	90.2	92.3	93.2	93.2	95.4	95.5	97.4	100.0
IV 0	63.1	73.1	77.1	80.8	83.9	85.3	88.2	89.6	90.2	92.3	93.2	93.2	95.4	95.5	97.4	100.0

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR

73-79

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12/0-14/1
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	18.1	19.2	21.3	21.4	21.0	21.0	21.0	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
≥ 20000	11.1	22.4	23.7	23.8	24.4	24.4	24.6	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
≥ 18000	11.8	23.2	24.4	24.6	25.2	25.2	25.3	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 16000	22.1	23.3	24.6	24.7	25.3	25.5	26.1	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
≥ 14000	23.1	24.4	26.1	26.1	26.7	26.9	27.3	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
≥ 12000	25.7	26.6	28.1	28.3	28.9	29.1	29.5	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
≥ 10000	26.7	28.6	30.1	30.3	31.7	31.2	31.6	32.1	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
≥ 9000	28.0	29.8	31.3	31.5	32.3	32.4	32.9	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
≥ 8000	29.3	31.2	32.7	32.9	33.6	33.8	34.3	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
≥ 7000	31.9	34.7	36.3	36.4	37.2	37.3	37.8	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
≥ 6000	35.3	37.5	39.2	39.3	40.1	40.2	40.7	41.1	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 5000	41.1	42.7	44.4	44.5	45.5	45.6	46.1	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
≥ 4500	43.2	45.9	47.6	47.8	48.7	48.8	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 4000	48.4	51.3	53.1	53.3	54.2	54.4	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 3500	53.9	57.3	59.1	59.3	61.4	61.5	61.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 3000	58.7	63.4	65.1	65.7	67.1	67.1	67.7	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 2500	61.1	66.7	68.5	69.3	71.5	71.7	71.4	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 2000	64.1	70.2	72.4	73.1	74.3	74.7	75.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 1800	65.4	72.0	74.3	75.1	76.3	76.7	77.4	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 1500	66.2	73.7	76.0	77.0	78.6	79.4	80.2	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 1200	68.1	76.8	79.1	81.0	82.8	83.9	84.8	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 1000	69.1	79.6	82.2	84.3	86.3	87.7	88.9	90.0	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 900	69.1	79.6	82.2	84.8	86.8	88.2	89.4	90.6	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 800	69.1	79.9	82.6	85.3	87.3	88.6	90.0	91.2	91.2	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 700	69.1	79.9	82.6	85.4	87.6	88.9	91.3	91.6	91.6	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 600	69.1	79.9	82.6	85.7	88.2	89.6	91.2	92.5	92.5	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 500	69.1	80.0	82.9	86.2	88.6	91.2	91.9	93.2	93.2	94.1	94.5	94.5	94.5	94.5	94.5	94.5
≥ 400	69.1	80.0	83.3	86.6	89.6	91.1	93.1	94.8	94.8	95.7	96.2	96.2	96.2	96.3	96.3	96.3
≥ 300	69.1	80.0	83.3	86.6	89.6	91.2	93.2	95.2	95.2	96.6	97.7	97.7	97.8	98.0	98.0	98.0
≥ 200	69.1	80.0	83.3	86.6	89.6	91.2	93.5	96.0	96.0	97.8	99.1	99.1	99.2	99.4	99.5	99.5
≥ 100	69.1	80.0	83.3	86.6	89.6	91.2	93.5	96.0	96.0	98.1	99.2	99.2	99.4	99.5	99.8	99.8
≥ 0	69.1	80.0	83.3	86.6	89.6	91.2	93.5	96.0	96.0	98.1	99.2	99.2	99.4	99.5	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 651

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

122
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	21.7	22.5	22.8	23.6	24.0	24.5	24.5	24.5	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
≥20000	23.8	25.1	26.3	27.1	27.6	28.2	28.2	28.2	28.4	28.4	28.4	28.4	28.5	28.5	28.5	28.7
≥18000	23.8	25.1	26.3	27.1	27.6	28.2	28.2	28.2	28.4	28.4	28.4	28.4	28.5	28.5	28.5	28.7
≥16000	23.8	25.1	26.3	27.1	27.6	28.2	28.2	28.2	28.4	28.4	28.4	28.4	28.5	28.5	28.5	28.7
≥14000	25.3	26.8	27.9	28.4	29.1	29.6	30.4	30.4	30.7	30.7	30.7	30.7	30.8	30.8	30.8	31.0
≥12000	26.8	28.7	29.7	30.2	31.1	31.4	32.2	32.2	32.7	32.7	32.7	32.7	32.8	32.8	32.8	33.0
≥10000	29.9	31.9	33.1	33.4	34.2	34.7	35.4	35.4	35.9	35.9	35.9	35.9	36.1	36.1	36.1	36.2
≥9000	31.0	33.0	34.1	34.5	35.3	35.7	36.5	36.5	37.0	37.0	37.0	37.0	37.1	37.1	37.1	37.3
≥8000	33.9	35.0	35.4	36.2	36.7	37.4	37.4	37.4	37.9	37.9	37.9	37.9	38.1	38.1	38.1	38.2
≥7000	33.9	35.0	35.4	36.2	36.7	37.4	37.4	37.4	37.9	37.9	37.9	37.9	38.1	38.1	38.1	38.2
≥6000	36.7	39.1	40.7	40.7	41.4	41.9	42.7	42.7	42.7	43.1	43.1	43.1	43.3	43.3	43.3	43.5
≥5000	42.5	45.1	46.2	46.8	47.6	48.1	48.8	48.8	48.8	49.3	49.3	49.3	49.5	49.5	49.5	49.6
≥4500	45.3	48.5	49.6	50.2	51.0	51.5	52.2	52.2	52.2	52.7	52.7	52.7	52.9	52.9	52.9	53.1
≥4000	51.9	55.2	56.4	57.3	58.2	58.7	59.5	59.5	59.5	59.9	59.9	59.9	60.1	60.1	60.1	60.4
≥3500	56.1	59.3	60.7	61.6	62.6	63.0	63.8	63.8	63.8	64.3	64.3	64.3	64.4	64.4	64.4	64.7
≥3000	61.0	65.8	67.3	68.6	69.5	70.3	70.7	70.7	70.7	71.2	71.2	71.2	71.3	71.3	71.3	71.6
≥2500	66.8	69.2	70.6	72.0	72.9	73.3	74.1	74.1	74.1	74.6	74.6	74.6	74.7	74.7	74.7	75.0
≥2000	66.4	72.4	74.4	76.0	76.9	77.7	78.4	78.4	78.4	78.9	78.9	78.9	79.1	79.1	79.1	79.4
≥1800	67.2	73.3	75.3	77.0	78.0	78.7	79.5	79.5	79.5	80.0	80.0	80.0	80.1	80.1	80.1	80.4
≥1500	69.2	76.4	78.4	80.4	81.5	82.3	83.5	83.5	83.5	84.0	84.0	84.0	84.1	84.1	84.1	84.4
≥1200	69.5	77.8	80.4	83.8	85.5	86.9	88.3	88.8	88.8	89.1	89.2	89.2	89.4	89.4	89.4	89.7
≥1000	70.1	79.1	82.1	86.3	88.1	89.7	91.1	91.5	91.5	92.1	92.1	92.1	92.3	92.3	92.3	92.6
≥900	70.6	79.7	82.9	87.4	89.4	91.9	92.6	93.1	93.1	93.7	93.7	93.7	93.8	93.8	93.8	94.1
≥800	70.6	79.7	82.9	87.4	89.5	91.1	92.8	93.2	93.2	93.8	93.8	93.8	94.0	94.0	94.0	94.3
≥700	70.7	80.1	83.2	87.7	90.0	91.5	93.2	93.7	93.7	94.3	94.3	94.3	94.5	94.5	94.5	94.8
≥600	70.7	80.1	83.4	88.3	90.6	92.1	94.1	94.5	94.5	95.1	95.1	95.1	95.2	95.2	95.2	95.5
≥500	70.7	80.2	83.4	88.4	90.9	92.4	94.3	94.9	94.9	95.7	95.8	95.8	96.1	96.1	96.1	96.3
≥400	70.7	80.1	83.5	88.9	91.4	92.9	94.8	95.5	95.5	96.5	96.6	96.6	96.8	96.8	96.8	97.1
≥300	70.7	80.1	83.5	88.9	91.4	92.9	94.8	96.0	96.1	97.1	97.2	97.2	97.4	97.4	97.4	97.7
≥200	70.7	80.1	83.5	88.9	91.4	92.9	94.8	96.0	96.1	97.5	97.8	97.8	98.5	98.5	98.9	99.5
≥100	70.7	80.1	83.5	88.9	91.4	92.9	94.8	96.0	96.1	97.5	97.8	97.8	98.5	98.5	98.9	99.8
≥0	70.7	80.1	83.5	88.9	91.4	92.9	94.8	96.0	96.1	97.5	97.8	97.8	98.5	98.5	98.9	99.8

TOTAL NUMBER OF OBSERVATIONS 699

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

222 PORTLAND IAP OR

73-79

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

817-2300
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	21.5	22.4	22.6	23.0	24.1	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.7
≥ 20000	24.4	25.3	25.7	26.1	27.2	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.8
≥ 18000	24.9	26.1	26.3	26.7	27.8	28.1	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.4
≥ 16000	24.9	26.1	26.3	26.7	27.8	28.1	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.4
≥ 14000	25.1	26.1	26.4	26.9	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.6
≥ 12000	27.3	28.1	28.4	28.9	30.0	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.6
≥ 10000	29.7	30.9	31.2	31.7	32.8	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	33.4
≥ 9000	30.0	31.8	32.1	32.6	33.7	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	34.3
≥ 8000	31.8	33.2	33.7	34.2	35.2	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.9
≥ 7000	35.1	36.5	37.1	37.6	38.6	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	39.3
≥ 6000	38.8	40.5	41.1	41.6	42.7	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	43.3
≥ 5000	45.3	47.4	48.1	48.5	49.6	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.9	49.9	50.4
≥ 4500	49.9	52.4	53.1	53.5	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.9	54.9	55.3
≥ 4000	54.7	58.1	58.9	59.5	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.9	60.9	61.4
≥ 3500	60.6	62.1	63.2	64.3	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.4	65.4	65.8
≥ 3000	61.8	66.6	68.1	68.9	70.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.3	70.3	70.8
≥ 2500	65.4	71.1	73.1	73.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.3	75.3	75.7
≥ 2000	66.9	73.3	75.1	76.2	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.9	77.9	78.4
≥ 1800	67.4	74.5	76.4	77.4	78.7	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.3	79.3	79.8
≥ 1500	68.8	76.7	79.0	80.4	81.6	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.2	82.2	82.7
≥ 1200	70.5	80.1	83.6	85.3	86.9	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.5	87.5	87.9
≥ 1000	71.9	81.3	85.3	87.2	88.7	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.3	89.3	89.8
≥ 900	71.3	81.8	86.2	88.7	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.9	90.9	91.3
≥ 800	71.4	82.1	86.9	89.8	91.3	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.4	92.4	92.9
≥ 700	71.4	82.1	87.2	90.4	92.1	92.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.0	93.0	93.5
≥ 600	71.4	82.1	87.2	90.6	92.1	92.7	93.2	93.2	93.2	93.2	93.4	93.4	93.4	93.5	93.5	94.0
≥ 500	71.4	82.2	87.3	91.0	92.7	93.4	93.8	93.8	93.8	94.0	94.0	94.0	94.0	94.1	94.1	94.6
≥ 400	71.4	82.2	87.5	91.2	93.2	93.8	94.3	94.3	94.3	94.3	94.9	94.9	94.9	95.1	95.1	95.5
≥ 300	71.4	82.2	87.5	91.2	93.4	94.0	94.6	94.6	94.6	94.6	95.8	95.8	95.8	96.0	96.0	96.4
≥ 200	71.4	82.2	87.5	91.2	93.4	94.0	94.6	94.6	94.6	94.6	96.1	96.3	96.3	96.4	96.4	97.1
≥ 100	71.4	82.2	87.5	91.2	93.4	94.0	94.6	94.6	94.6	94.6	96.1	96.3	96.3	96.4	96.4	97.4
≥ 0	71.4	82.2	87.5	91.2	93.4	94.0	94.6	94.6	94.6	94.6	96.1	96.3	96.3	96.4	96.4	97.4

TOTAL NUMBER OF OBSERVATIONS 847

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
ATC WEATHER SERVICE/MAL

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR
STATION NAME

YEARS 75-79

MONTH DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2137-2571
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	23.3	23.3	23.3	24.5	25.3	25.3	25.5	25.5	25.5	25.6	25.8	25.3	25.9	25.9	25.9	26.7
≥20000	24.2	26.2	26.7	27.5	28.2	28.2	28.4	28.4	28.4	28.5	28.7	28.7	28.9	28.9	28.9	29.6
≥18000	24.4	26.4	26.9	27.6	28.4	28.4	28.5	28.5	28.5	28.7	28.9	28.9	29.0	29.0	29.0	29.8
≥16000	24.9	26.4	26.9	27.6	28.4	28.4	28.5	28.5	28.5	28.7	28.9	28.9	29.0	29.0	29.0	29.8
≥14000	24.3	26.9	27.5	28.2	29.0	29.0	29.2	29.2	29.2	29.3	29.5	29.5	29.6	29.6	29.6	30.4
≥12000	25.5	27.6	28.4	29.2	29.9	29.9	30.1	30.1	30.1	30.2	30.4	30.4	30.6	30.6	30.6	31.3
≥10000	28.3	30.7	31.5	32.3	33.1	33.1	33.2	33.2	33.2	33.3	33.5	33.5	33.6	33.6	33.6	34.4
≥9000	29.5	31.6	32.4	33.3	34.1	34.1	34.3	34.3	34.3	34.4	34.6	34.6	34.7	34.7	34.7	35.5
≥8000	30.4	32.6	33.5	34.3	35.0	35.0	35.2	35.2	35.2	35.3	35.5	35.5	35.6	35.6	35.6	36.4
≥7000	31.6	34.4	35.3	36.1	36.9	36.9	37.0	37.0	37.0	37.1	37.3	37.3	37.5	37.5	37.5	38.3
≥6000	35.8	39.3	40.0	40.7	41.5	41.5	41.7	41.7	41.7	41.8	42.0	42.0	42.1	42.1	42.1	42.9
≥5000	40.9	44.3	45.2	46.1	46.9	46.9	47.1	47.1	47.1	47.2	47.4	47.4	47.5	47.5	47.5	48.3
≥4500	46.3	50.8	51.7	52.6	53.5	53.5	53.7	53.7	53.7	53.9	54.0	54.0	54.2	54.2	54.2	54.9
≥4000	52.2	57.4	58.6	59.9	60.6	60.6	60.8	60.8	60.8	61.0	61.1	61.1	61.3	61.3	61.3	62.0
≥3500	54.9	60.6	62.2	63.3	64.0	64.0	64.2	64.2	64.2	64.4	64.5	64.5	64.7	64.7	64.7	65.4
≥3000	58.5	64.7	66.5	68.1	69.8	69.8	69.9	69.9	69.9	70.1	70.3	70.3	70.4	70.4	70.4	71.2
≥2500	61.0	68.2	70.5	72.1	72.8	72.8	73.0	73.0	73.0	73.1	73.3	73.3	73.5	73.5	73.5	74.2
≥2000	61.4	70.4	72.7	74.5	75.5	75.5	75.6	75.6	75.6	75.8	75.9	75.9	76.1	76.1	76.1	76.9
≥1800	62.3	71.8	74.1	76.1	77.1	77.1	77.2	77.2	77.2	77.3	77.5	77.5	77.6	77.6	77.6	78.4
≥1500	63.4	74.1	76.5	78.5	79.6	79.6	79.8	79.8	79.8	79.9	80.1	80.1	80.2	80.2	80.2	81.0
≥1200	65.3	77.6	81.0	83.3	84.7	84.7	84.9	84.9	84.9	85.0	85.2	85.2	85.3	85.3	85.3	86.1
≥1000	65.7	79.5	83.7	86.0	87.3	87.3	87.5	87.7	87.7	87.7	87.8	87.8	88.0	88.0	88.0	88.9
≥900	65.9	79.8	83.8	86.7	88.3	88.3	88.9	88.9	88.9	89.0	89.2	89.2	89.4	89.4	89.4	90.1
≥800	66.0	80.2	84.4	87.3	88.9	88.9	89.2	89.8	89.8	89.8	90.0	90.1	90.3	90.3	90.3	91.2
≥700	66.0	80.2	84.6	87.5	89.2	89.2	89.5	90.1	90.1	90.1	90.3	90.4	90.6	90.6	90.6	91.7
≥600	66.0	80.2	84.9	87.8	89.1	89.1	90.4	91.4	91.4	91.4	91.7	91.8	92.0	92.0	92.0	93.1
≥500	66.0	80.2	85.2	88.7	90.4	90.4	91.7	91.7	91.7	91.7	92.0	92.1	92.3	92.3	92.3	93.4
≥400	66.0	80.2	85.5	89.2	90.9	90.9	91.2	92.4	92.4	92.4	92.7	92.9	92.9	93.1	93.1	94.1
≥300	66.0	80.2	85.7	89.7	91.4	91.4	93.2	93.4	93.4	93.4	93.8	94.0	94.0	94.1	94.1	95.2
≥200	66.0	80.2	85.5	89.7	91.4	91.4	93.2	93.4	93.4	93.4	94.3	94.6	94.6	95.2	95.2	96.5
≥100	66.0	80.2	85.5	89.7	91.4	91.4	93.2	93.4	93.4	93.4	94.6	95.1	95.1	96.1	96.3	98.5
≥0	66.0	80.2	85.5	89.7	91.4	91.4	93.2	93.4	93.4	93.4	94.6	95.1	95.1	96.1	96.3	98.5

TOTAL NUMBER OF OBSERVATIONS 642

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

7 129
STATION

PORTLAND IAP OR

STATION NAME

73-79

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (U.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING	7.2	18.4	18.6	19.0	19.5	19.6	19.7	19.8	19.8	20.0	20.0	20.0	20.2	20.3	20.6	21.1
≥ 20000	9.7	21.8	21.7	21.8	22.3	22.4	22.6	22.7	22.7	22.9	22.9	22.9	23.1	23.2	23.5	24.1
≥ 18000	7.0	21.2	21.7	22.2	22.7	22.8	22.9	23.0	23.0	23.2	23.3	23.3	23.5	23.5	23.9	24.5
≥ 16000	6.0	21.3	21.7	22.3	22.8	22.9	23.2	23.2	23.3	23.5	23.5	23.5	23.7	23.8	24.1	24.7
≥ 14000	5.9	22.1	22.7	23.2	23.7	23.8	24.0	24.1	24.1	24.4	24.4	24.4	24.6	24.7	25.0	25.6
≥ 12000	5.1	23.4	24.0	24.5	25.0	25.2	25.4	25.5	25.5	25.7	25.8	25.8	26.0	26.0	26.4	27.0
≥ 10000	4.5	25.7	25.4	26.9	27.4	27.5	27.8	27.9	27.9	28.1	28.2	28.2	28.4	28.4	28.8	29.4
≥ 9000	3.5	26.8	27.5	28.3	28.6	28.7	28.9	29.0	29.0	29.3	29.3	29.3	29.5	29.6	29.9	30.5
≥ 8000	2.6	27.8	28.5	29.1	29.6	29.7	30.0	30.1	30.1	30.3	30.4	30.4	30.6	30.6	31.0	31.6
≥ 7000	2.8	32.3	31.3	31.6	32.1	32.3	32.5	32.6	32.6	32.9	32.9	32.9	33.1	33.2	33.5	34.1
≥ 6000	3.9	33.8	34.4	35.2	35.7	35.9	36.1	36.2	36.2	36.4	36.5	36.5	36.7	36.8	37.1	37.7
≥ 5000	3.7	39.8	40.5	41.2	41.7	41.9	42.2	42.2	42.2	42.5	42.6	42.6	42.8	42.8	43.2	43.8
≥ 4500	3.1	43.7	44.6	45.2	45.8	45.9	46.2	46.3	46.3	46.6	46.7	46.7	46.9	46.9	47.3	47.9
≥ 4000	4.7	51.0	52.7	52.9	53.5	53.6	53.9	54.0	54.0	54.3	54.3	54.3	54.6	54.6	55.0	55.6
≥ 3500	1.1	55.1	56.3	57.2	57.8	58.0	58.3	58.3	58.3	58.6	58.7	58.7	58.9	58.9	59.3	59.9
≥ 3000	55.6	61.9	62.3	63.4	64.0	64.2	64.5	64.6	64.6	64.8	64.9	64.9	65.2	65.2	65.6	66.2
≥ 2500	58.4	64.9	66.5	67.7	68.4	68.5	68.9	68.9	68.9	69.2	69.3	69.3	69.5	69.6	69.9	70.6
≥ 2000	60.3	67.7	69.6	71.0	71.7	71.9	72.3	72.4	72.4	72.6	72.7	72.7	73.0	73.2	73.4	74.0
≥ 1800	61.2	69.3	71.2	72.7	73.4	73.6	74.0	74.0	74.1	74.3	74.4	74.4	74.7	74.7	75.1	75.7
≥ 1500	62.8	71.9	74.0	75.7	76.5	76.9	77.3	77.4	77.4	77.6	77.7	77.7	78.0	78.0	78.4	79.0
≥ 1200	64.5	74.7	77.4	79.6	80.8	81.2	81.7	81.9	82.0	82.3	82.3	82.3	82.6	82.6	83.0	83.7
≥ 1000	65.0	76.6	79.7	82.3	83.7	84.2	84.7	85.0	85.0	85.4	85.5	85.5	85.7	85.8	86.2	86.8
≥ 900	65.2	77.3	80.6	83.4	84.8	85.4	86.0	86.2	86.3	86.6	86.7	86.7	87.0	87.0	87.4	88.1
≥ 800	65.3	77.4	81.0	84.1	85.6	86.1	86.9	87.2	87.2	87.6	87.7	87.7	88.0	88.0	88.4	89.1
≥ 700	65.3	77.6	81.3	84.5	86.1	86.6	87.5	87.8	87.8	88.2	88.3	88.3	88.6	88.6	89.0	89.7
≥ 600	65.3	77.6	81.4	84.8	86.5	87.1	88.2	88.6	88.6	89.1	89.1	89.1	89.5	89.5	89.7	90.6
≥ 500	65.3	77.8	81.7	85.4	87.2	87.9	89.1	89.5	89.5	90.1	90.2	90.2	90.6	90.6	91.0	91.7
≥ 400	65.3	77.9	82.0	85.9	87.9	88.7	90.1	90.6	90.6	91.4	91.6	91.6	91.9	92.0	92.4	93.2
≥ 300	65.3	77.9	82.0	86.1	88.2	89.0	90.6	91.3	91.4	92.4	92.8	92.8	93.3	93.3	93.9	94.8
≥ 200	65.3	77.9	82.1	86.2	88.3	89.1	90.9	91.8	92.0	93.4	94.0	94.0	94.9	95.0	95.9	97.1
≥ 100	65.3	77.9	82.1	86.1	88.4	89.1	91.0	91.9	92.1	93.5	94.2	94.2	95.3	95.4	96.8	99.3
≥ 0	65.3	77.9	82.1	86.1	88.4	89.1	91.0	91.9	92.1	93.5	94.2	94.2	95.3	95.5	96.9	100.0

TOTAL NUMBER OF OBSERVATIONS 5196

GLOBAL CLIMATOLOGY BRANCH
JAFETAC
AF WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

STATION PORTLAND IAP OR STATION NAME

73-79 YEARS

ALL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	31.5	37.6	38.0	32.3	33.5	38.5	33.6	38.7	38.7	38.8	38.8	38.9	38.9	38.9	39.0	39.2
≥ 20000	34.0	40.9	41.4	41.7	41.9	41.9	42.1	42.1	42.1	42.2	42.3	42.3	42.4	42.4	42.5	42.7
≥ 18000	38.8	41.2	41.6	42.0	42.2	42.2	42.3	42.4	42.4	42.4	42.5	42.5	42.6	42.6	42.8	42.9
IV 16000	38.9	41.3	41.7	42.1	42.3	42.3	42.4	42.5	42.5	42.6	42.6	42.6	42.7	42.7	42.9	43.1
≥ 14000	41.5	42.4	42.8	43.2	43.4	43.4	43.5	43.6	43.6	43.7	43.8	43.8	43.9	43.9	44.0	44.2
IV 12000	41.6	44.1	44.6	45.0	45.2	45.2	45.3	45.4	45.4	45.5	45.6	45.6	45.7	45.7	45.8	46.0
≥ 10000	43.5	46.1	46.5	46.9	47.1	47.2	47.3	47.3	47.4	47.5	47.5	47.5	47.6	47.6	47.8	48.0
IV 9000	44.5	47.1	47.6	48.0	48.2	48.3	48.4	48.4	48.5	48.6	48.6	48.6	48.7	48.7	48.9	49.0
≥ 8000	45.6	48.4	48.9	49.3	49.5	49.5	49.7	49.7	49.7	49.8	49.9	49.9	50.0	50.0	50.2	50.4
IV 7000	48.0	50.9	51.4	51.8	52.0	52.1	52.2	52.3	52.3	52.4	52.4	52.4	52.5	52.6	52.7	52.9
≥ 6000	51.5	54.6	55.1	55.5	55.7	55.8	55.9	56.0	56.0	56.1	56.2	56.2	56.3	56.3	56.4	56.6
IV 5000	56.7	60.1	60.4	61.3	61.3	61.3	61.5	61.5	61.5	61.6	61.7	61.7	61.8	61.8	62.0	62.2
≥ 4500	59.7	63.3	63.9	64.3	64.6	64.6	64.8	64.8	64.8	64.9	65.0	65.0	65.1	65.1	65.3	65.5
IV 4000	64.9	69.1	69.7	70.2	70.5	70.5	70.7	70.8	70.8	70.9	71.0	71.0	71.1	71.1	71.2	71.4
≥ 3500	68.4	73.0	73.7	74.2	74.5	74.6	74.7	74.8	74.8	74.9	75.0	75.0	75.1	75.1	75.3	75.4
IV 3000	72.8	78.2	79.0	79.6	79.9	79.9	80.1	80.2	80.2	80.3	80.4	80.4	80.5	80.5	80.7	80.9
≥ 2500	75.6	81.8	82.7	83.4	83.8	83.8	84.0	84.1	84.1	84.2	84.3	84.3	84.4	84.4	84.6	84.8
IV 2000	77.4	84.5	85.6	86.4	86.7	86.8	87.0	87.1	87.1	87.2	87.3	87.3	87.4	87.4	87.6	87.8
≥ 1800	78.1	85.5	86.6	87.5	87.9	88.0	88.1	88.2	88.3	88.4	88.5	88.5	88.6	88.6	88.7	88.9
IV 1500	79.2	87.5	88.7	89.7	90.2	90.3	90.5	90.6	90.6	90.8	90.9	90.9	91.0	91.0	91.1	91.3
≥ 1200	80.1	89.2	90.7	91.9	92.4	92.6	92.8	92.9	93.0	93.1	93.2	93.2	93.3	93.3	93.5	93.7
IV 1000	81.5	90.1	91.8	93.1	93.7	93.9	94.1	94.3	94.3	94.5	94.5	94.5	94.7	94.7	94.9	95.1
≥ 900	82.6	90.4	92.3	93.6	94.2	94.4	94.7	94.8	94.9	95.0	95.1	95.1	95.2	95.2	95.4	95.6
IV 800	83.6	91.5	92.4	93.8	94.6	94.8	95.2	95.3	95.4	95.5	95.6	95.6	95.7	95.8	95.9	96.1
≥ 700	84.0	92.7	92.8	94.2	94.9	95.1	95.5	95.7	95.8	96.0	96.0	96.0	96.2	96.2	96.4	96.6
IV 600	85.7	93.7	93.8	94.4	95.2	95.4	95.8	96.1	96.1	96.3	96.4	96.4	96.5	96.5	96.7	96.9
≥ 500	86.7	94.8	94.9	94.6	95.4	95.7	96.2	96.5	96.5	96.8	96.9	96.9	97.0	97.0	97.2	97.4
IV 400	87.7	95.6	95.6	94.8	95.6	95.9	96.5	96.8	96.9	97.2	97.3	97.3	97.5	97.5	97.7	97.9
≥ 300	88.7	96.8	96.8	94.8	95.7	96.1	96.7	97.1	97.2	97.5	97.8	97.8	98.0	98.0	98.3	98.5
IV 200	89.7	97.8	97.8	94.8	95.8	96.1	96.8	97.2	97.3	97.8	98.1	98.1	98.4	98.4	98.8	99.2
≥ 100	90.7	98.8	98.8	94.8	95.8	96.1	96.8	97.2	97.3	97.8	98.1	98.1	98.5	98.5	99.0	99.8
IV 0	91.7	99.8	99.8	94.8	95.8	96.1	96.8	97.2	97.3	97.8	98.1	98.1	98.5	98.5	99.0	99.8

TOTAL NUMBER OF OBSERVATIONS 61517

TOTAL SKY COVER

FOR AIRWAYS STATIONS THE SYMBOLS OF CLEAR, SCATTERED, BROKEN, OVERCAST, & OBSCURED WERE USED AS INPUT FOR THE TOTAL SKY COVER.

CLEAR WAS CONVERTED TO 0/10

SCATTERED WAS CONVERTED TO 3/10

BROKEN WAS CONVERTED TO 9/10

OVERCAST WAS CONVERTED TO 10/10

OBSCURED WAS CONVERTED TO 10/10

NOTE: PERCENTAGES IN OTHER TENTHS CLASSES SHOULD BE DISREGARDED, BECAUSE THEY ARE NOT STATISTICALLY SIGNIFICANT.

3 GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

24229 PORTLAND IAP OR

73-79

JAN

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	00-02	18.1			5.7	1.1				.8	9.1	65.1	7.6	645
	03-05	15.5	.8		5.6	1.4	.3	.2		2.2	7.8	66.3	7.8	644
	06-08	14.3			7.1	.2				.8	9.9	67.7	7.9	644
	09-11	8.5	1.1		7.2	1.5	.3	.2		2.0	14.0	65.2	8.3	649
	12-14	10.5			8.8	.8				.3	14.8	64.9	8.1	650
	15-17	10.1	.8		8.0	1.2	1.1	.8		2.2	11.1	64.8	8.0	651
	18-20	14.8			9.6	1.1				.2	10.2	64.3	7.7	649
	21-23	20.6	.8		5.2	1.2	.2			2.0	6.9	63.1	7.3	650
TOTALS		14.1	.4		7.2	1.1	.2	.2		1.3	10.5	65.2	7.8	5182

USAFETAC

FORM
JUL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

3
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

24229 PORTLAND IAP OR

73-79

FEB

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
FEB	0-02	12.1			9.9						15.6	62.4	7.9	585
	03-05	8.9	.7		5.8	.9	.2	.5		2.2	10.8	70.0	8.4	584
	06-08	4.6			5.7						15.8	74.0	9.0	584
	09-11	3.7	.5		5.3	.5	.2			3.4	16.0	70.4	8.9	587
	12-14	5.1			9.1						20.0	65.8	8.7	591
	15-17	6.4	1.2		8.5	1.0	.8	.7		3.0	16.6	61.8	8.3	591
	18-20	8.9			13.5						13.1	64.6	8.0	587
	21-23	12.2	1.0		10.7	.7	.5	.8		2.5	12.4	59.2	7.7	591
TOTALS		7.7	.4		8.6	.4	.2	.3		1.4	15.0	66.0	8.4	4700

3

2429	PORTLAND IAP OR	73-79	MAR
STATION	STATION NAME	PERIOD	MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
MAR	0-02	17.7			8.0						16.1	58.2	7.5	651
	3-05	15.0	1.4		8.8	.5	.3	.8		2.8	10.4	60.1	7.5	647
	06-08	7.5			11.2						16.8	64.6	8.3	644
	09-11	5.8	1.1		10.9	.5	1.7	.6		2.6	18.0	58.8	8.2	650
	12-14	4.8			14.4						25.3	55.5	8.3	651
	15-17	2.8	1.1		14.6	.5	.8	1.4		3.4	23.3	52.2	8.2	651
	18-20	7.7			16.1						21.8	54.4	7.9	651
	21-23	15.7	1.1		11.1	1.4	.6	.5		4.5	12.7	52.5	7.2	651
TOTALS		9.6	.6		11.9	.4	.4	.4		1.7	18.1	57.0	7.9	5196

SKY COVER

73-79

APR

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
APR	00-02	17.2			15.6						16.9	50.3	7.0	628
	03-05	15.2	1.3		17.7	.8	.6	1.6		1.9	15.0	53.0	7.3	627
	06-08	7.8			17.8						20.7	60.6	8.3	627
	09-11	7.9	1.0		10.3	.3	.6	.8		3.3	17.3	58.3	8.1	629
	12-14	8.1			15.7						24.0	52.2	7.9	630
	15-17	7.3	1.4		12.6	.8	1.0	.3		4.9	23.8	47.9	7.8	625
	18-20	7.6			18.3						25.1	49.0	7.7	629
	21-23	16.2	2.1		14.6	1.9	.5	1.0		3.3	16.3	44.1	6.8	630
TOTALS		111.9	.7		13.6	.5	.3	.5		1.7	19.9	51.9	7.6	5029

FORM 0-9-5 (OL A)
JUL 64

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SKY COVER

73-79

MAY

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
MAY	10-02	23.2			16.6						15.2	45.0	6.4	651
	3-05	14.7	1.1		12.1	.6	1.4	1.1		3.5	17.5	47.9	7.2	651
	6-08	12.0			12.7						22.4	52.8	7.7	651
	9-11	10.0	1.5		12.4	.9	.6	.8		4.3	23.8	45.6	7.6	651
	12-14	10.1			17.2						27.0	45.6	7.5	651
	15-17	9.1	2.0		16.7	1.2	.9	.6		4.8	26.7	37.9	7.2	651
	18-20	11.4	.2		24.6						25.3	38.6	6.9	651
	21-23	20.9	1.8		15.4	1.1	.9	.9		3.2	17.7	38.1	6.3	651
TOTALS		13.9	.8		16.0	.5	.5	.4		2.0	22.0	43.9	7.1	5208

FORM 0-9-5 (OL A)
JUL 64

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

73-79

JUN

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
JUN	00-02	27.6			16.1					.2	16.6	39.5	5.9	627
	03-05	21.0	.8		11.6	.8	.5	.5		2.2	18.8	43.9	6.7	629
	06-08	15.6			15.9						16.7	51.8	7.2	628
	09-11	16.0	1.1		11.7	.8	.5	1.1		3.8	21.1	43.8	7.1	630
	12-14	19.5			16.5						26.0	37.9	6.6	630
	15-17	17.5	1.9		18.1	1.3	1.0	1.0		4.1	20.8	34.4	6.4	630
	18-20	21.6			20.8						23.5	34.1	6.2	630
	21-23	28.4	1.7		15.4	.6	.2	2.1		3.2	14.3	34.1	5.6	630
TOTALS		20.9	.7		15.8	.4	.3	.6		1.7	19.7	40.0	6.5	5034

FORM
JUL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

JUL

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (L.S.T)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JUL	0-22	41.9			16.0						14.9	27.2	4.5	651
	23-25	51.0	1.7		10.3	.8	.9	1.4		2.3	15.4	36.3	5.7	651
	26-28	23.6			13.1						12.8	50.5	6.6	648
	29-31	29.0	1.4		9.9	.2	.6	.9		2.3	17.7	38.0	6.0	648
	12-14	35.5			14.5						17.8	29.2	5.0	650
	15-17	36.9	2.2		15.1	.8	.6	.8		4.0	19.2	20.6	4.7	651
	18-20	34.3			26.4						17.8	21.5	4.5	651
	21-23	43.9	1.2		17.4	.9	.3	1.4		1.7	12.1	21.0	4.0	651
TOTALS		34.9	.8		15.3	.3	.3	.6		1.3	16.0	30.5	5.1	5201

FORM 0-9-5 (OL A)
JUL 44

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

24229 PORTLAND IAP OR

73-79

AUG

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
AUG	0-02	41.3			12.0						15.7	31.0	4.9	651
	03-05	27.0	1.8		12.6	.3	.5	1.1		1.7	9.5	45.5	6.0	651
	06-08	11.4			14.9						14.7	59.0	7.7	651
	09-11	20.3	2.0		12.8	1.1	.8	.5		2.3	14.9	45.4	6.6	650
	12-14	27.9			21.7						17.1	33.3	5.5	649
	15-17	29.5	3.1		19.8	1.4	1.5	1.1		2.0	15.5	26.1	5.0	651
	18-20	33.6			20.4						20.0	26.0	5.0	651
	21-23	42.1	1.7		15.2	.8	.5	.5		2.8	10.9	29.7	4.3	651
TOTALS		29.1	1.1		16.2	.5	.4	.4		1.1	14.8	36.5	5.6	5205

USAFETAC

FORM
JUL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

24229 PORTLAND IAP OR

73-79

SEP

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
SEP	00-02	47.1			12.1						11.3	29.6	4.3	629
	03-05	35.6	1.3		10.7	.6	.2	.3		1.6	10.7	30.0	5.4	626
	06-08	22.6			12.3						17.1	48.0	6.7	625
	09-11	27.5	.8		10.9	1.0	1.3	.8		3.5	18.5	36.3	6.0	626
	12-14	33.7			16.2						19.2	30.9	5.3	624
	15-17	35.1	.8		13.7	.6	1.4	.8		3.2	19.8	24.6	5.1	630
	18-20	38.5			15.9						18.3	27.2	4.8	628
	21-23	47.1	1.9		11.4	1.1	.5	.5		2.7	10.3	24.4	4.0	630
TOTALS		35.9	.6		12.9	.4	.4	.3		1.3	15.7	32.5	5.2	5018

USAFETAC

FORM
JUL 64 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

3

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

24229 PORTLAND IAP OR

73-79

OCT

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
OCT	0-02	31.4			10.4						14.8	43.5	6.0	637
	03-05	21.2	1.1		8.5	.9	.5	.5		3.8	14.0	49.5	6.9	636
	06-08	11.5			10.4						19.2	59.0	7.9	637
	09-11	14.6	.5		11.2	.5	1.1	.5		2.6	17.1	51.9	7.4	643
	12-14	20.0			14.8						21.1	44.1	6.8	649
	15-17	19.8	2.8		12.9	1.2	.5	1.4		3.4	16.9	41.2	6.5	651
	18-20	26.4			16.6						14.3	42.7	6.1	651
	21-23	30.9	1.2		13.1	1.1	.5	.6		2.3	13.6	36.7	5.6	648
TOTALS		22.0	.7		12.2	.5	.3	.4		1.5	16.4	46.1	6.7	5152

USAFETAC

FORM
JUL 64

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

NOV

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
NOV	0-02	13.9			17.3						13.4	62.4	7.8	611
	03-05	11.2	.2		8.6	.8	.2	.3		2.9	10.4	65.4	8.0	615
	06-08	6.9			7.2						14.0	71.8	8.7	607
	09-11	7.8	.5		6.5	.3	.8	.6		2.1	14.5	66.9	8.5	619
	12-14	8.9			10.5						17.4	63.2	8.2	627
	15-17	9.4	.3		9.5	.5	.8	.6		3.7	18.3	57.0	8.0	630
	18-20	13.5			13.5						12.9	60.2	7.6	630
	21-23	16.4	.6		9.0	1.0	.5	.6		3.4	10.9	57.6	7.4	623
TOTALS		11.0	.2		9.4	.3	.3	.3		1.5	14.0	63.1	8.0	4962

3 GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

24229 PORTLAND IAP OR

73-79

DEC

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
DEC	0-32	7.1			8.7						14.3	69.9	8.5	635
	3-05	6.1	.2		6.1	.5	.8	.8		2.3	8.2	75.1	8.7	643
	06-08	4.7			7.2						11.4	76.8	8.9	643
	09-11	4.3	.5		6.7	.3	.3			1.4	13.3	73.2	8.9	645
	12-14	4.5			9.4						17.4	68.8	8.7	651
	15-17	5.4	.3		10.3	.9	.5	1.2		2.0	15.6	63.8	8.4	649
	18-20	10.6			9.0						15.7	64.8	8.2	644
	21-23	11.2	.6		9.8	.9	.5	.8		1.6	11.7	63.0	7.9	643
TOTALS		6.7	.2		8.4	.3	.3	.4		.9	13.5	69.4	8.5	5153

3

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SKY COVER

24229 PORTLAND IAP OR

73-79

ALL

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9	10		
JAN	ALL	14.1	.4		7.2	1.1	.2	.2		1.3	17.5	65.2	7.8	5182
FEB		7.7	.4		8.6	.4	.2	.3		1.4	15.0	66.0	8.4	4770
MAR		9.6	.6		11.9	.4	.4	.4		1.7	18.1	57.0	7.9	5196
APR		10.9	.7		13.6	.5	.3	.5		1.7	19.9	51.9	7.6	5002
MAY		13.9	.8		16.0	.5	.5	.4		2.0	22.0	43.9	7.1	5208
JUN		20.9	.7		15.8	.4	.3	.6		1.7	19.7	40.0	6.5	5034
JUL		34.9	.8		15.3	.3	.3	.6		1.3	16.0	30.5	5.1	5201
AUG		29.1	1.1		16.2	.5	.4	.4		1.1	14.8	36.5	5.6	5205
SEP		35.9	.6		12.9	.4	.4	.3		1.3	15.7	32.5	5.2	5018
OCT		22.0	.7		12.2	.5	.3	.4		1.5	16.4	46.1	6.7	5152
NOV		11.7	.2		9.4	.3	.3	.3		1.5	14.0	63.1	8.0	4962
DEC		6.7	.2		8.4	.3	.3	.4		.9	13.5	69.4	8.5	5153
TOTALS		18.1	.6		12.3	.5	.3	.4		1.5	16.3	50.2	7.0	61040

USAFETAC

FORM
JUL 64 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

C PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:
 - a. Daily maximum temperatures
 - b. Daily minimum temperatures
 - c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:
 - a. Extreme maximum temperature
 - b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) * indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

Values in parentheses are not included in the mean and standard deviation calculations.

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ($\sum X^2$), sums of values ($\sum X$), means (\bar{X}), and standard deviations (σ_x). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

YEARS

MAXIMUM

USAFETAC FORM 0-21 5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DAILY TEMPERATURES

48-79

STATION

STATION NAME

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MINIMUM

[illegible]

USAFETAC FORM 0-21-5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

ATF WEATHER SERVICE/MAC
24229 PORTLAND IAP OR

DAILY TEMPERATURES

24229 PORTLAND IAP OR
STATION STATION NAME

48-79

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MEAN

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

24229

PORTLAND IAP OR

48-79

STATION

STATION NAME

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
48	52	65	72	70	85	93	92	83	94	73	55	52	94
49	44	62	61	75	86	87	93	93	91	68	68	56	93
50	48	61	62	77	85	88	90	95	91	72	60	64	93
51	58	62	63	81	85	97	93	94	91	79	64	51	97
52	57	59	65	76	87	83	98	99	96	89	62	56	99
53	61	58	72	70	86	80	91	95	88	77	62	59	95
54	58	60	63	73	86	82	82	82	83	72	69	54	86
55	52	55	60	73	77	95	86	90	98	75	61	61	98
56	57	50	70	84	89	81	102	93	85	81	59	58	102
57	54	63	62	87	83	79	87	86	92	72	60	58	92
58	62	66	67	77	89	95	102	95	97	84	63	62	102
59	57	61	65	77	83	86	98	88	89	73	63	59	98
60	58	57	73	77	79	86	97	100	89	78	61	54	100
61	59	60	65	71	91	94	104	98	83	80	61	59	104
62	59	59	69	80	70	85	92	87	93	75	67	58	93
63	55	65	67	70	91	90	83	93	89	74	59	52	93
64	53	60	74	67	84	83	89	94	81	80	56	59	94
65	55	61	72	80	78	93	107	91	88	82	63	60	107
66	55	60	74	75	87	95	89	93	91	81	66	58	95
67	58	62	61	66	87	91	99	102	94	73	63	58	102
68	56	70	67	81	79	93	99	92	92	72	62	52	99
69	53	57	73	72	88	97	91	88	92	74	70	56	97
70	61	64	65	66	86	98	102	97	88	90	69	59	102
71	60	62	65	76	91	90	97	101	82	82	60	55	101
72	58	62	72	78	92	88	97	104	97	78	63	61	104
73	59	63	68	74	92	93	99	94	97	70	58	56	99
74	62	56	70	75	78	90	94	95	96	81	66	60	95
75	59	64	63	72	88	90	95	87	92	86	73	60	95
76	58	60	66	82	84	89	92	86	87	82	68	54	92
77	56	68	64	79	76	88	93	105	88	72	63	61	105
MEAN													
S D													
TOTAL OBS													

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

* (AT LEAST ONE DAY LESS THAN 24 OBS)

(FROM DAILY OBSERVATIONS)

YEARS

[illegible]

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

(AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

24229 PORTLAND IAP OR

48-79

STATION

STATION NAME

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
48	24	24	30	32	34	52	48	50	41	32	29	22	22
49	9	23	31	32	36	41	48	45	40	27	29	25	9
50	-2	-3	28	31	38	45	48	47	36	33	26	35	-3
51	16	26	26	29	37	46	48	44	39	31	31	22	16
52	20	28	28	32	33	42	47	49	42	37	18	25	18
53	29	27	28	31	37	43	48	48	38	33	31	33	27
54	19	25	23	31	29	42	45	48	35	32	30	26	19
55	25	20	19	29	36	44	43	45	38	38	13	23	13
56	13	16	24	30	36	46	48	48	42	35	22	23	13
57	6	22	27	32	43	46	46	47	39	34	26	32	6
58	26	27	27	34	36	50	51	50	42	30	23	27	23
59	12	29	31	33	37	45	47	46	43	31	25	22	16
60	22	19	22	33	33	47	47	47	41	23	30	23	19
61	22	35	30	33	39	42	49	51	34	32	23	21	21
62	9	20	28	35	34	44	44	46	42	38	31	22	9
63	11	32	28	33	36	44	46	47	44	30	26	20	11
64	28	23	29	30	32	42	47	46	39	32	25	6	6
65	29	29	25	32	35	41	50	46	34	36	32	19	19
66	24	26	29	32	37	39	52	48	46	34	33	32	24
67	31	27	25	31	39	46	52	51	43	36	25	11	13
68	24	26	27	30	38	45	48	49	44	35	31	8	8
69	16	23	22	33	36	50	49	46	42	31	28	24	16
70	23	31	29	30	37	45	50	45	36	29	27	26	23
71	21	23	22	30	40	45	46	52	40	26	27	23	20
72	18	18	29	30	37	47	49	51	39	30	30	8	8
73	22	26	33	33	40	44	50	45	44	37	29	30	22
74	12	29	25	34	39	45	49	48	43	35	31	28	12
75	26	27	27	30	37	45	51	48	42	36	29	26	26
76	26	24	25	31	41	42	46	49	45	33	22	23	22
77	17	28	29	31	40	41	46	51	42	37	26	27	17
MEAN													
\$ D													
TOTAL OBS.													

NOTES * (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

(AT LEAST ONE DAY LESS THAN 24 OBS)

(AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

21429 PORTLAND IAP OR

73-79

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

000-0200

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
57/39		.5																3	3					
58/57		.7																1	1	3				
56/55		.2	.5															4	4	1	3			
54/53		.2	.5		.2													6	6	1	2			
52/51		.5	.2	.3														6	6	7	1			
51/49		.9	.2															7	7	6	2			
47/47		3.8	.6	.2														30	30	8	17			
45/45	.5	4.5	.8	.2														38	38	36	13			
44/43	.9	5.7	2.3	.3	.2													62	62	44	37			
42/41	.	8.2	.9	.6	.2													65	65	62	33			
41/39	1.6	5.5	.8	.5	.5													56	56	66	50			
39/37	2.8	3.7	.3	.2														45	45	58	73			
37/35	2.3	4.2	.9	.5														51	51	45	70			
34/33	2.6	5.1	1.4	.5	.2													64	64	56	42			
32/31	2.7	5.1	.2	1.2	.2													62	62	65	54			
31/29	.2	3.8	.3	.9														41	41	51	42			
29/27	1.1	1.7	1.2	1.2														34	34	27	48			
27/25	.5	1.8	1.4	.2														23	23	25	18			
25/23		1.1	1.2	.3														17	17	28	21			
23/21	.2	.3	.9	.2														10	10	20	13			
21/19		.9	.8															11	11	12	13			
19/17		.8	.5															8	8	14	15			
17/15		.3	.3															4	4	8	11			
15/13		.2	.2															2	2	4	10			
13/11																				3	15			
11/9																					15			
9/7																					17			
7/5																					9			
5/3																					3			
3/1																					3			
TOTAL	15.2	58.9	6.2	7.1	1.7													650		650	650			
																		650		650				
Element (X)	Σx ²		Σx		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ			
Rel. Hum.	4543356		534.6		82.2		15.390		65		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb	897366		23566		36.3		8.137		65				30.3										93	
Wet Bulb	6753		22327		34.5		8.532		65				35.8										93	
Dew Point	7252		1123		31.0		11.036		65		.9		44.2										93	

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/LMAC

PSYCHROMETRIC SUMMARY

STATION PORTLAND IAP OR

73-79

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

300-5500
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
1 / 59		.5																3	3		
2 / 57		.2	.2															2	2	3	
3 / 55			.9															6	6	2	3
4 / 53		.2	.3															3	3	2	2
5 / 51		.8	.8															10	10	7	2
6 / 49		.6	.2															5	5	9	2
7 / 47		1.9	.5															15	15	7	14
8 / 45	.3	5.2	.9															42	42	20	11
9 / 43	.6	5.8	2.3															59	59	47	29
10 / 41	.3	9.1	1.2	.5	.2													73	73	61	39
11 / 39	.5	3.8	.3	.2	.3													33	33	51	53
12 / 37	1.7	4.1	.2															52	52	56	67
13 / 35	0.1	4.6	.5	.6														64	64	62	82
14 / 33	3.2	6.1	.6	.2	.5													68	68	50	52
15 / 31	2.3	3.2	.8	.6														45	45	46	46
16 / 29	2.5	2.6	.6	.9														43	43	55	41
17 / 27	1.7	2.2	1.2	1.1														41	41	28	37
18 / 25	.9	2.3	.5	.5														29	29	30	27
19 / 23	.5	1.5	.9															19	19	32	14
20 / 21	.2	1.2	.8															14	14	16	22
21 / 19	.3	.6	1.2															14	14	19	13
22 / 17		1.4	.2															11	11	12	20
23 / 15		.3	.3															4	4	11	9
24 / 13		.5																3	3	4	13
25 / 11																				3	13
26 / 9																					9
27 / 7																					16
28 / 5																					13
29 / 3																					4
30 / 1																					2
31 / -																					3
TOTAL	21.6	58.5	15.2	4.5	1.2													651	651	651	651
																		651		651	
Element (X)	Σ x ²		Σ x		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature						Total				
Rel. Hum.	4650705		54199		83.3		14.993		651		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	93				
Dry Bulb	677147		23766		35.7		8.370		651			30.9					93				
Wet Bulb	674314		22712		34.1		8.452		651			36.6					93				
Dew Point	696345		20765		3.8		10.927		651		.4	43.1					93				

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMM

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MONT

PAGE 1 0600-
HOURS (L.

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb															
67/59			.5															3	3															
58/57		.5																3	3															
56/55			.9															6	6	6														
54/53		.2	.2															2	2	1														
52/51		1.1	.3															9	9	6														
51/49		.6																4	4	10														
48/47		2.5	.5	.5														22	22	5														
46/45	.8	4.8																36	36	29														
44/43	1.2	5.1	1.5	.3	.3													55	55	40														
42/41	.5	9.0	.5	.5	.2													68	68	51														
40/39	.6	4.8	.6		.5													42	42	69														
38/37	3.3	4.3	.3	.5														48	48	50														
36/35	3.2	5.9	.6		.5													66	66	61														
34/33	3.7	4.5	1.9	.3														67	67	67														
32/31	2.9	3.2	.6	1.1														51	53	49														
30/29	1.4	3.2	.2	.3														33	34	39														
28/27	1.7	1.7	.6	1.7														37	37	34														
26/25	.5	3.4	.8	.5														33	33	32														
24/23	.8	.5	.8	.2														14	14	27														
22/21	.5	.8	.6	.2														13	13	19														
21/19	.5	1.4	1.1															19	19	17														
18/17	.3	.6	.2															7	7	16														
16/15		.6	.5															7	7	11														
14/13		.3																2	2	5														
12/11		.2																1	1	4														
11/9																																		
8/7																																		
6/5																																		
4/3																																		
2/1																																		
TOTAL	20.8	59.0	13.6	5.9	1.4														651															
																		648		648														

Element (X)	Σx^1	Σx	\bar{x}	s^2	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4641688	53988	83.3	14.902	648	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	T
Dry Bulb	871425	23169	35.6	8.489	651		31.4					
Wet Bulb	795933	22013	34.7	8.581	648		36.3					
Dew Point	600913	19887	30.7	11.021	648	.3	44.1					

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

JAN
MONTH

PAGE 1 1900-1900
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
53/ 57			.8															5	5					
56/ 55		.5	.6															7	7	2				
54/ 53		.2	.3															3	3	7	3			
52/ 51		1.2	.8															13	13	4	5			
50/ 49	.2	1.7	.5	.2		.2												17	17	15	7			
48/ 47	.2	3.5	1.7	.2														36	36	16	13			
46/ 45	.6	4.9	1.7	.8		.2												53	53	40	30			
44/ 43	.9	6.8	3.4	.6	.6													80	80	44	32			
42/ 41	.3	7.1	2.2		.2													57	57	71	34			
40/ 39	.2	5.8	.2	.3														42	42	69	51			
38/ 37	2.3	4.0	1.1	.6														52	52	61	25			
36/ 35	2.2	5.4	.8	.8	.6													63	63	51	63			
34/ 33	1.8	3.8	1.7	.3	.3													52	52	51	47			
32/ 31	1.4	4.2	.6	1.5	.5													53	54	45	47			
30/ 29	1.8	1.8	1.1	1.7	.2													43	43	50	42			
28/ 27	.5	1.2	.9	1.8														29	29	25	26			
26/ 25	.2	.9	.5	.5														13	13	33	21			
24/ 23	.2	.6	.5	.2														9	9	19	24			
22/ 21		.3	1.2	.2														11	11	18	12			
20/ 19		.6	.8															9	9	13	15			
18/ 17		.3	.2															3	3	10	8			
16/ 15																				5	11			
14/ 13																				1	15			
12/ 11																					8			
10/ 9																					16			
8/ 7																					14			
6/ 5																					8			
4/ 3																					7			
2/ 1																					3			
0/ -1																					2			
-2/ -3																					1			
TOTAL	12.6	54.9	20.3	9.5	2.3	.3													650	651	650			
Element (X)	Σx²		Σx		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature										Total			
Rel. Hum.	4296.147		51765		79.6		16.353		650		≤ 0 F.	≤ 32 F.	≥ 67 F.	≥ 73 F.	≥ 80 F.	≥ 93 F.	93							
Dry Bulb	973484		24650		37.9		7.856		650			24.4					93							
Wet Bulb	869933		23189		35.7		8.107		650			31.3					93							
Dew Point	732843		20573		31.7		11.219		650		.4	40.1					93							

445 FORM 0-26-5 (OLAI) REVISIO PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
USAFETAC JAN 64

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229

PORTLAND IAP OR

73-79

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1200-1400

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
62 / 61				.2														1	1					
58 / 59			.2	.2														2	2					
58 / 57		.3	1.5	.2														13	13					
56 / 55		.2	.5	.3			.2											7	7	6				
54 / 53		.6	2.0	.5	.2	.2												22	22	11	3			
52 / 51		1.2	1.2	.8	.3	.2												24	24	0	8			
50 / 49		2.9	2.2	1.7	.4	.5												49	49	26	11			
48 / 47		2.2	3.7	3.1	.6													62	62	30	28			
46 / 45	.5	3.2	4.9	1.4	.6	.5												72	72	47	27			
44 / 43		5.2	3.2	.9	.2													62	62	74	30			
42 / 41		4.5	1.8	.9	.2													45	45	83	39			
40 / 39	.2	4.2	1.1	1.2	.3													45	45	53	67			
38 / 37	.5	3.4	.9	1.7	.3													44	44	57	74			
36 / 35	1.5	2.9	1.7	1.4	.9													55	55	44	65			
34 / 33	.6	3.4	.8	1.7	.9													48	48	50	41			
32 / 31	1.4	2.7	1.1	1.8	1.4													50	50	36	49			
30 / 29	.3	.5	.5	1.4	.3													19	19	35	30			
28 / 27		.3	.3	1.4														13	13	25	24			
26 / 25			1.4	.2														10	10	25	27			
24 / 23		.2	.5															4	4	19	11			
22 / 21			.2															1	1	14	11			
20 / 19			.3															2	2	4	11			
18 / 17																				3	13			
16 / 15																					12			
14 / 13																					12			
12 / 11																					7			
10 / 9																					21			
8 / 7																					15			
6 / 5																					4			
4 / 3																					7			
2 / 1																					1			
0 / 0																					1			
-2 / -3																					1			
Element (X)	Σx ¹		Σx		Σ		Σ _n		No. Obs.		Mean No. of Hours with Temperature							Total						
Rel. Hum.											≤ 6 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC FORM 0-26-5 (OL A) JAN 64

REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24229
STATIO

PORTLAND IAP OR

73-79

JAN
MONTH

PAGE 2

1200-1400
HOURS (L. S. T.)

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1500-1700

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
67 / 59			.2	.2														2	2			
58 / 57		.5	.9	.2														10	10			
56 / 55		.6	.6	.5	.5		.2											15	15	6		
54 / 53		.6	2.0	.8	.3		.2											25	25	12	3	
52 / 51		1.1	.5	.6		.2	.2											16	16	13	9	
51 / 49		1.4	2.6	1.5	.8	.2												42	42	22	12	
48 / 47	.5	3.5	2.2	1.7	.5	.3												56	56	25	32	
46 / 45		4.5	4.3	2.9	1.1	.3												85	85	51	22	
44 / 43		4.5	3.8	1.5	.5	.2												68	68	61	23	
42 / 41	.2	4.2	1.8	1.1	.2													49	49	60	48	
41 / 39	.5	2.8	2.5	1.8														49	49	75	63	
39 / 37	.5	2.9	1.1	1.8	.6													45	45	44	54	
36 / 35	1.2	3.1	1.2	.8	.8													46	46	53	62	
34 / 33	.8	2.6	.9	1.1	.3													37	37	50	49	
32 / 31	.3	2.2	1.1	1.7	.8													38	38	33	50	
31 / 29	.5	.5	1.4	2.2	.5													32	32	31	39	
28 / 27		.3	.2	2.2														16	16	19	23	
26 / 25			.9	.2														7	7	24	31	
24 / 23		.2	1.1	.2														9	9	22	16	
22 / 21			.3															2	2	19	11	
21 / 19			.3															2	2	7	13	
18 / 17																					10	
16 / 15																					11	
14 / 13																					12	
12 / 11																					11	
11 / 9																					18	
8 / 7																					12	
6 / 5																					3	
4 / 3																					9	
2 / 1																					2	
1 / -1																					3	
TOTAL	4.3	35.2	29.0	22.6	6.6	1.1	.5												651	651	651	
																		651		651		
Element (X)	Σx ²		Σx		Σ	Σ ₂	No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.	3594341		47773		72.3	17.122	651		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total							
Dry Bulb	1146944		26836		41.2	7.912	651			15.1					93							
Wet Bulb	973326		24620		37.8	8.060	651			22.7					93							
Dew Point	765157		21747		32.3	11.415	651		.4	39.1					93							

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1800-2000
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
58/ 57		.2	.5															4	4						
56/ 55		.5	.9															5	5	2					
54/ 53		1.1	.5															10	10	6	2				
52/ 51		1.1	.5															10	10	9	7				
50/ 49		2.8	1.2			.5												29	29	14	9				
48/ 47	.2	3.7	2.3	.5														43	43	23	22				
46/ 45	.3	4.8	3.7	.6														61	61	37	26				
44/ 43	.2	5.2	3.2	.5	.6													63	63	50	24				
42/ 41	.3	6.5	1.8	.5														59	59	69	39				
40/ 39	.6	5.4	1.8	.8	.3													58	58	72	64				
38/ 37		4.8	1.4	.9														46	46	50	63				
36/ 35	1.7	4.9	1.5	.8														58	58	64	71				
34/ 33	.2	5.4	2.9	.5														62	62	44	39				
32/ 31	1.8	2.2	1.2	.2														35	35	67	50				
30/ 29	.3	.9	2.6	2.0	.2													39	39	32	37				
28/ 27			1.7	.6														15	15	12	24				
26/ 25		.5	1.5	.9														19	19	26	30				
24/ 23		.5	1.4	.5														15	15	23	22				
22/ 21		.8	.8															10	10	16	16				
20/ 19		.6	.8															9	9	22	7				
18/ 17																				12	19				
16/ 15																					9				
14/ 13																					16				
12/ 11																					9				
10/ 9																					14				
8/ 7																					10				
6/ 5																					8				
4/ 3																					10				
2/ 1																					1				
0/ 0																					2				
TOTAL	6.25	1.5	31.7	9.1	1.1	.5												650	650	650	650				
																		650		650					
Element (X)	Σx²		Σx		X	°x	No. Obs.		Mean No. of Hours with Temperature										Total						
Rel. Hum.	41.77769		50533		77.7	15.161	650		≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	93										
Dry Bulb	1104783		25035		38.5	7.905	650			20.3					93										
Wet Bulb	89468		23463		36.1	8.189	650			30.0					93										
Dew Point	738282		20660		31.8	11.210	650		.3	40.6					93										

FORM 0-26-5 (OL A) REVISIONS OF THIS FORM ARE OBSOLETE

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

JAN
MONTH

PAGE 1 2100-2300
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
58/ 57		.2	.2															2	2			
56/ 55		.2	.5															4	4	1		
54/ 53		.5	.5															6	6	3	1	
52/ 51	.2	1.1			.2													9	9	6	5	
50/ 49		2.2	.2															15	15	13	13	
48/ 47		3.8	1.4	.2		.2												36	36	9	11	
46/ 45	.8	5.8	1.1	.3	.3													54	54	44	25	
44/ 43	.5	6.6	2.3		.3													63	63	49	29	
42/ 41	.5	6.5	1.5		.3	.2												58	58	55	41	
40/ 39	.8	6.9	1.1	.2	.3													60	60	71	53	
38/ 37	1.8	4.6	.9															48	48	69	70	
36/ 35	2.	4.6	1.1	.2														47	47	47	75	
34/ 33	.9	6.9	2.8	.5														72	72	47	39	
32/ 31	2.2	3.5	.8	.6														46	46	64	49	
30/ 29	.8	2.9	1.2	1.4														41	41	51	39	
28/ 27		.9	1.5	1.2														24	24	14	37	
26/ 25		1.5	1.5	.2														21	21	21	26	
24/ 23		.6	1.4	.3														15	15	25	18	
22/ 21		.3	.8	.2														8	8	22	14	
20/ 19		1.2	1.1															15	15	13	10	
18/ 17		.9																6	6	19	21	
16/ 15																				5	4	
14/ 13	.2																	1	1	1	10	
12/ 11																					14	
10/ 9																					14	
8/ 7																					17	
6/ 5																					12	
4/ 3																					1	
2/ 1																					2	
0/ -1																					1	
-2/ -3																						
TOTAL	17.4	61.1	21.7	5.1	1.4	.3												651	651	651	651	
Element (X)	Σx'	Σx	X	Σx	No. Obs.	Mean No. of Hours with Temperature																
Rel. Hum.	4420344	52780	81.1	14.704	651	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total										
Dry Bulb	942958	24726	37.2	7.983	651		25.3					93										
Wet Bulb	852593	22941	35.2	8.243	651		33.6					93										
Dew Point	72816	20560	31.6	10.977	651	.4	41.3					93										

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

ALL
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
62/ 51				.1														1	1					
57/ 59		.1	.1	.2														13	13					
58/ 57		.2	.5	.7														40	40	8				
56/ 55		.2	.6	.1	.1		.2											54	54	26	6			
54/ 53		.4	.8	.2	.1	.7	.9											77	77	43	20			
52/ 51	.1	1.0	.5	.2	.1	.8	.2											97	97	62	40			
51/ 49	.1	1.6	.9	.4	.1	.2												148	168	115	61			
48/ 47	.1	3.1	1.6	.8	.1	.1												300	300	123	152			
46/ 45	.5	4.7	2.2	.8	.2	.1												441	441	304	169			
44/ 43	.5	5.6	2.8	.5	.4	.5												512	512	409	232			
42/ 41	.5	6.8	1.4	.5	.2	.7												474	474	532	306			
41/ 39	.6	4.9	1.3	.6	.3													385	385	536	445			
38/ 37	1.7	4.0	.8	.7	.7													380	380	445	546			
36/ 35	2.3	4.4	1.0	.6	.7													450	450	427	553			
34/ 33	1.8	4.7	1.6	.6	.3													470	470	423	369			
32/ 31	1.9	3.2	.8	1.1	.3													380	383	475	397			
31/ 29	1.1	2.0	1.3	1.3	.1													291	292	344	313			
28/ 27	.6	1.0	1.0	1.4														208	208	184	245			
26/ 25	.2	1.3	1.1	.4														150	150	216	201			
24/ 23	.2	.6	1.7	.2														102	102	195	152			
22/ 21	.1	.5	.7	.1														69	69	144	125			
21/ 19	.1	.7	.8															81	81	107	97			
18/ 17		.9	.1															34	34	90	120			
16/ 15		.2	.1															15	15	40	77			
14/ 13		.1																8	8	15	101			
11/ 11		.1																1	1	10	85			
9/ 9																					121			
8/ 7																					121			
6/ 5																					65			
4/ 3																					45			
2/ 1																					14			
1/ -1																					17			
-2/ -3																					6			
Element (X)	Σ x ²		Σ x		Σ	Σ _n	No. Obs.		Mean No. of Hours with Temperature															
Rel. Hum.									≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC FORM 0-26-5 (OL A) JAN 64

4748

PSYCHROMETRIC SUMMARY

JAN

MONTH

ALL

ALL
HOURS (L, S, T.)

[illegible]

PSYCHROMETRIC SUMMARY

24229
STATION

PORTLAND IAP OR

73-79

FFA

PAGE 1

3000-0200
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

24229

PORTLAND IAP OR

73-79

FEB

STATION

STATION NAME

YEARS

PER MONTH

PAGE 1

0300-0500

[illegible]

PSYCHROMETRIC SUMMARY

24229

PORTLAND IAP OR

73-79

FER

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0600-0800
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

20229 PORTLAND IAP OR

73-79

FEB

STATION

STATION NAME

YEARS

MONTH

PAGE 1

5900-1100

HOURS (L, S, T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

FEB
MONTH

PAGE 1 1200-1910
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
60/ 65								.2										1	1						
64/ 63							.2	.3										1	1						
62/ 61				.2	.2	.2	.2	.3										6	6						
61/ 59			.5	.3	.5	.3	.3	.3										14	14						
58/ 57			.7	.7	.7	1.0	.2											19	19						
50/ 55		.3	1.0	1.0	.7	1.0												26	26	6					
44/ 53		.2	2.4	1.9	.5	.8												34	34	10	1				
52/ 51		1.2	2.9	2.2	.8	.7												46	46	23	6				
51/ 49		2.2	2.7	2.7	2.1	.3	.3											61	61	39	14				
46/ 47		3.6	4.7	3.7	2.2	.7	.5	.3										93	93	52	22				
41/ 45		3.4	7.4	3.4	1.2	.3		.2										94	94	71	35				
44/ 42		5.6	4.9	1.7	.3	.2												75	75	74	42				
42/ 41	.5	2.6	3.9	1.2			.3											47	47	130	50				
41/ 39	.3	2.9	.8	.7	.2		.2											30	30	65	83				
38/ 37	.2	2.2	.2			.5												19	18	63	81				
35/ 35	.8	.8	.7															14	14	27	77				
34/ 33		.3	.3															4	4	13	65				
32/ 31	.2	.2		.3														4	4	6	39				
31/ 29			.5															3	3	6	27				
28/ 27			.2															1	1		9				
26/ 25																				5	11				
24/ 23																				1	5				
22/ 21																					2				
21/ 19																					1				
19/ 17																					6				
15/ 15																					3				
14/ 13																					3				
8/ 7																					3				
4/ 3																					4				
2/ 1																					1				
1/ 0																					1				
TOTAL	2.0	24.9	33.8	20.3	9.3	6.1	2.2	1.4										591		591	591				
Element (X)	Σx ²		Σx		X	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature																
Rel. Hum.	3054941		41427		73.1	16.001		591	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total										
Dry Bulb	1320417		27709		46.9	6.006		591		1.1					84										
Wet Bulb	1083827		25119		42.5	5.241		591		2.6					84										
Dew Point	838879		21797		36.9	7.699		591	.1	16.3					84										

USAFETAC FORM 44 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

29229

PORTLAND IAP OR

73-79

FEB

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1500-1700

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	Dry Bulb	Wet Bulb	Dew Point																
68 / 57																																	2	2		
66 / 65																																	2	2		
64 / 63																																	3	3		
62 / 62																																	11	11		
60 / 59																																	15	15		
58 / 57																																	11	11		
56 / 55																																	33	33	6	
54 / 53																																	42	42	6	3
52 / 51																																	36	36	21	1
50 / 49																																	59	59	50	13
48 / 47																																	84	84	43	22
46 / 45																																	104	104	76	37
44 / 43																																	86	86	96	42
42 / 41																																	44	44	102	48
40 / 39																																	19	19	74	70
38 / 37																																	23	23	64	85
36 / 35																																	7	7	26	79
34 / 33																																	4	4	9	57
32 / 31																																	5	5	5	38
30 / 29																																	1	1	4	42
28 / 27																																				
26 / 25																																				
24 / 23																																				
22 / 21																																				
20 / 19																																				
18 / 17																																				
16 / 15																																				
14 / 13																																				
12 / 11																																				
10 / 9																																				
8 / 7																																				
6 / 5																																				
4 / 3																																				
2 / 1																																				

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

29:29

PORTLAND IAP OR

73-79

333

STATION

STATION NAME

YEARS

MONTH

PAGE 2

1500-1700

HOURS (L, S, T.)

[illegible]

PSYCHROMETRIC SUMMARY

FEB
MONTH

1800-2000
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-79

FFF

STATION

STATION NAME

YEARS

MONTH

PAGE 1

2100-2300
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

FFA

MONTH

ALL

HOURS (L. S. T.)

[illegible]

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

[illegible]

PSYCHROMETRIC SUMMARY

24229

PORTLAND IAP OR

73-79

MAR
MONTH

PAGE 2

0300-0500
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

HAR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0670-0800

HOURS (L, S, T,)

[illegible]

PSYCHROMETRIC SUMMARY

24229

PORTLAND IAP OR

73-79

MAR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0900-1100

HOURS (L, S, T,)

[illegible]

PSYCHROMETRIC SUMMARY

MAR
MONTH

PAGE 1 1200-1400
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

27229
STATION

PORTLAND IAP OR

73-79

YEARS

MAR
MONTH

PAGE 1

1500-1700
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

MAR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1800-2000

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point				
7 / 69											.2								1	1					
68 / 67							.2			.2									2	2					
68 / 65				.2			.2		.2										4	4					
64 / 63							.3	.6	.2	.5									10	10					
62 / 61			.5	.5	.6	.3			.5	.3									17	17					
61 / 59				1.7	.5	1.1	1.1	.3	.2										31	31	3				
58 / 57			.2	.5	1.2	1.1	.8	.6											28	28	1				
56 / 55			.6	1.2	2.0	.8	.3	.3											34	34	8	4			
54 / 53		.2	.9	1.7	2.0	1.4	.3	.2											43	43	17				
52 / 51		.8	1.4	3.1	2.3	.6													53	53	23	3			
51 / 49		2.3	2.5	5.7	1.8	.3	.2	.2											84	84	43	15			
48 / 47		3.1	3.5	5.4	2.2	1.1													99	99	81	26			
46 / 45		3.4	5.8	2.5	1.7														87	87	90	30			
44 / 43		4.0	4.0	2.8	.9	.5													84	84	109	42			
42 / 41	.2	.8	4.1	.8	.2														39	39	102	61			
41 / 39		1.2	1.2	.5	.2														20	20	86	96			
36 / 37		.6	.2	.5															8	8	51	71			
36 / 35		.9	.2																7	7	23	113			
34 / 33																					10	56			
32 / 31																					4	44			
31 / 29																						32			
28 / 27																						20			
28 / 25																						14			
24 / 23																						9			
22 / 21																						3			
21 / 19																						8			
16 / 17																						1			
17 / 13																						1			
TOTAL	.2	17.2	25.8	26.7	15.5	7.5	3.3	2.2	1.1	.2	.2								651	651	651	651			
Element (X)	Σx ¹		Σx		Σ		Σ ₂		No. Obs.		Mean No. of Hours with Temperature										Total				
Rel. Hum.	2747146		42600		65.8		15.613		651		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F					93				
Dry Bulb	1593225		31948		49.1		6.247		651				.4								93				
Wet Bulb	12563.9		20427		43.7		4.803		651				.6								93				
Dew Point	726.17		24199		37.2		6.384		651				18.9								93				

USAFETAC FORM 0-26-5 (OLA) JAN 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

20229 PORTLAND IAP OR
STATION STATION

73-79

MAR

PAGE 1 2100-2300
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

APR
MONTH

PAGE 7 0600-0800
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

24229
STATIC

PORTLAND IAP OR

73-79

APR
MONTH

PAGE 1

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HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0300-0500
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

24229
STATIC

PORTLAND IAP OR

73-79

APR
MONTH

PAGE 1

0600-1800
HOURS (L; S, T.)

[illegible]

PSYCHROMETRIC SUMMARY:

APB

MONTH

7900-1100
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

20229	PORTLAND IAP OR
STATION	STATION NAME

73-79

YEARS

APR
MONTH

PAGE 1

1200-1400
HOURS (L, S, T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-79

APP

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F.)																		TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	Dry Bulb		Wet Bulb	Dew Point	
81 / 81										.3		.2						3	3			
81 / 79									.2		.3							3	3			
78 / 77										.5								3	3			
76 / 75								.2	1.0	.2								8	8			
74 / 73							.5	.8	1.4		.5	.2						21	21			
72 / 71								.5	1.6	1.0	.5							22	22			
71 / 69						.3	1.1	2.1	.8	.8								32	32			
68 / 67						.2	1.1	.6	.5	.5								18	18			
66 / 65					.5	.6	.5	1.9	.5	.2								26	26			
64 / 63				.2	.3	1.4	1.0	1.6	.5	.5								34	34	4		
62 / 62				.6	1.0	2.4	1.7	1.3										44	44	6		
61 / 59	.2	.3	.3	1.7	1.4	3.2	1.0											51	51	22		
58 / 57				1.0	1.9	2.2	1.7	.5										46	46	37		
56 / 55	.5	1.9	1.6	4.4	2.7	1.6												80	80	34		
54 / 53	.6	2.2	4.7	1.7	2.4	.3												71	71	54		
52 / 51	.3	2.4	3.7	2.7	.6													57	57	77		
51 / 49	1.7	4.1	1.3	.8	.2													51	51	84		
48 / 47	1.9	2.5	.6	.6														36	36	132		
46 / 45	1.6	.8	.6															19	19	97		
44 / 43	.2	.3	.2															4	4	58		
42 / 41		.2																1	1	15		
41 / 39																				9		
38 / 37																				1		
36 / 35																						
34 / 33																						
32 / 31																						
31 / 29																						
28 / 27																						
26 / 25																						
24 / 23																						
TOTAL	7.0	14.8	13.3	15.7	14.4	12.7	10.3	6.3	3.8	1.3	.3							630	630	630		

PSYCHROMETRIC SUMMARY

24229

PORTLAND IAP OR

73-79

499

STATION

STATION NAME

YEARS

MONTH

PAGE 2

1800-2000
HOURS (U.S. T-1)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
78/ 77										.2								1	1																
76/ 75								.2	.2	.2								3	3																
74/ 73								.2	.2									2	2																
72/ 71							.5	.5	.2									7	7																
70/ 69						.2	1.0	.2	.5	.3								13	13																
68/ 67						.2	1.5	.3	.3	.3								17	17																
66/ 65					.6	1.0	1.1	.5	.3	.2								23	23																
64/ 63				.2	.6	1.0	1.0	1.0	.3									25	25																
62/ 61				.3	1.8	1.3	1.0	.5										30	30	3															
60/ 59	.2			.5	1.4	1.6	1.9	.3	.2									40	40	6															
58/ 57		.6		1.6	1.6	1.6	.8	.2	.2									41	41	21															
56/ 55		.5	.6	2.9	2.7	1.8	.5	.2	.2									58	59	31	4														
54/ 53		.6	1.4	1.6	2.4	2.4	.8											58	58	37	4														
52/ 51		2.2	3.6	4.3	2.2	.5												80	80	55	16														
50/ 49		1.6	4.5	3.3	3.7	.2												81	81	80	28														
48/ 47		2.5	2.9	2.9	1.6													62	62	102	43														
46/ 45		4.3	2.7	1.1	.2													52	52	100	63														
44/ 43		2.2	1.9	.5														26	26	106	74														
42/ 41			.6	.2														5	5	57	90														
40/ 39		.2	.2															2	2	22	82														
38/ 37																		2	2	7	63														
36/ 35																				1	38														
34/ 33																					47														
32/ 31																					49														
30/ 29																					15														
28/ 27																					7														
26/ 25																					1														
24/ 23																					1														
22/ 21																					1														
20/ 19																					2														
TOTAL		15.3	17.8	18.9	18.0	11.5	10.0	4.1	2.4	1.1									628	629		628													
Element (X)	Σ x ²		Σ x		x̄		s _x		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.	2606833		39049		62.2		16.981		628		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																		
Dry Bulb	1870711		34005		54.1		7.175		629				6.2	.9							90														
Wet Bulb	1426997		29785		47.4		4.783		628												90														
Dew Point	1044072		25328		40.3		5.999		628				10.9								90														

PSYCHROMETRIC SUMMARY

73-79

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

2100-2300

HOURS (L, S, T-)

[illegible]

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

ALL
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
83 / 84										.1	.7	.7						4	4					
81 / 79									.0	.0	.0							4	4					
78 / 77										.7	.1							5	5					
76 / 75									.1	.1	.0							12	12					
74 / 73								.1	.2	.2		.1	.0					28	28					
72 / 71								.2	.3	.3	.1	.1						47	47					
71 / 69						.1	.5	.3	.3	.1								66	66					
68 / 67				.0	.7	.2	.5	.2	.1	.1								62	62					
66 / 65					.2	.4	.4	.4	.2	.0								86	86					
64 / 63				.2	.3	.6	.4	.4	.2	.1								109	109	4				
62 / 61			.0	.3	.7	.9	.6	.3	.0									146	146	15				
61 / 59		.2	.2	.5	.9	.8	.9	.3	.2									185	185	44				
58 / 57		.1	.3	1.4	1.4	1.0	.6	.1	.0									239	239	106				
55 / 55		.5	1.1	1.7	1.9	1.7	.3	.0	.0									330	331	129				
54 / 53	.1	.7	1.6	2.3	1.9	1.0	.2	.1										391	391	213				
52 / 51		1.4	3.2	2.7	1.4	.4												460	460	336				
51 / 49	.1	3.3	4.3	2.6	.9	.1												567	567	479				
48 / 47	.2	5.6	3.7	2.3	.6													622	622	718				
46 / 45	.2	6.6	4.7	1.3	.7													631	631	849				
44 / 43	.2	5.3	3.1	.5														461	461	803				
42 / 41	.1	2.6	2.3	.1														256	256	623				
41 / 39	.2	1.8	.7															139	139	340				
38 / 37	.3	1.6	.1															99	99	215				
35 / 35	.1	.9	.2															47	47	101				
34 / 33	.1	.5																29	29	43				
32 / 31	.1	.2																12	12	25				
31 / 29																				4				
28 / 27																				95				
26 / 25																				30				
24 / 23																				4				
22 / 21																				1				
21 / 19																				5				
18 / 17																				2				

Element (X)	Σ X ²	Σ X	X̄	σ _x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

APR
MONTH

PAGE 2

ALL
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

24229
STATIC

PORTLAND IAP OR

73-79

MAY
MONTH

PAGE 3

0000-0200
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

24229

PORTLAND IAP OR

73-79

MAY
MONTH

STATION

STATION NAME

YEARS

MONTH

PAGE 2

0300-0500
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

MAY
MONTH

7600-0800
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-79

NAV

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0900-1100
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PSYCHROMETRIC SUMMARY

28229 PORTLAND IAP OR

73-79

MAY

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
9 / 89														.3				2	2					
88 / 87														.2				1	1					
86 / 85										.2		.2	.2					3	3					
84 / 83										.3	.5	.6						9	9					
82 / 81										.3	.3	.5						8	8					
80 / 79										.5	.2	.3						14	14					
78 / 77										.3	1.4	.6	.5					18	18					
76 / 75										.9	1.4	.2	.6					20	20					
74 / 73						.3	.2	2.6		.3	.2							23	23					
72 / 71						.6	1.2	1.2	.5	.3								25	25					
70 / 69					.2	.6	2.3	.6	.9									28	28					
68 / 67					.8	.9	1.7	.5	.5									28	28		2			
66 / 65				.3	.5	1.6	2.6	.9	.2									41	41		3			
64 / 63		.2	.3	.8	1.5	4.1	2.1											62	62		22			
62 / 61		.2	.5	1.1	2.3	3.5	1.7	.2										61	61		53			
60 / 59				1.4	5.1	4.5	.9	.3										79	79		46			
58 / 57		.5	.5	2.8	5.7	1.5	.2											72	72		45			
56 / 55		.5	2.3	4.5	3.5	.9												76	76		61			
54 / 53		.2	1.2	1.8	1.7	.3												34	34		94			
52 / 51		.3	2.3	.5	.5													23	23		131			
50 / 49	1.1	1.4	.3															18	18		98			
48 / 47	.2																	1	1		73			
46 / 45	.3	.2																3	3		16			
44 / 43	.2																	1	1		6			
42 / 41	.2																	1	1		1			
40 / 39																								
38 / 37																								
36 / 35																								
34 / 33																								
32 / 31																								
TOTAL		3.5	8.6	13.4	21.7	19.2	13.1	7.5	5.7	3.4	2.5	.9	.2	.5				651	651		651			
Element (X)	Σx²		Σx		X		x		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.	278559		35565		54.6		14.443		651		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total							
Dry Bulb	2613039		40882		62.8		8.385		651				25.6	14.7	4.4		93							
Wet Bulb	1875728		34807		53.5		4.876		651				.3				93							
Dew Point	1344361		29413		45.2		4.875		651				.2				93							

REvised PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 0-26-5 (OL A)

USAFETAC JUL 61

4766

PSYCHROMETRIC SUMMARY

73-79

444

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1500-1700
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
92/ 91															.3			2	2					
91/ 89															.3			2	2					
98/ 87												.2		.2				2	2					
86/ 85										.2		.6	.8	.2				11	11					
34/ 83											.9	.6	.6					14	14					
82/ 81									.2	.6	1.2							13	13					
8 / 79									.3	1.7	.2							14	14					
76/ 77								.3	1.4	.9	1.4	.6						30	30					
76/ 75								.8	1.7	.3	.6							22	22					
74/ 73							.3	1.1	.9	.5	.6	.2	.2					24	24					
71/ 71						.5	.8	2.7	1.4	.3	.2							34	34					
7 / 69						.6	1.2	1.2	.8	.5								28	28					
68/ 67			.2	.2	.5	.5	1.5	1.2	1.1									33	33	2				
66/ 65				.2	.5	1.1	2.6	1.7										39	39	2				
64/ 63		.3	.3	.5	.3	3.5	3.2	1.1	.2									61	61	28				
62/ 61			.6		3.1	4.7	1.1	.5										60	60	56	1			
57/ 59			.8	1.8	2.5	2.8	1.3	.2										62	62	46	2			
55/ 57		.9	.8	3.1	2.9	2.2	.2											65	65	52	4			
56/ 55		.6	1.7	1.8	2.2	.2												42	42	57	12			
54/ 53		.8	2.5	2.1	.8	.3												41	41	116	23			
52/ 51		.8	2.6	.9	.3													30	30	113	25			
5 / 49		.5	1.4	.3														14	14	91	65			
48/ 47		.5	.5															6	6	62	109			
48/ 45		.2	.2															2	2	21	103			
44/ 43																				5	75			
42/ 41																					89			
40 / 39																					64			
38/ 37																					42			
36/ 35																					22			
34/ 33																					8			
32/ 31																					5			
30 / 29																					1			
28/ 23																					1			
Element (X)	Σ x ²			Σ x			x̄			s _x			No. Obs.			Mean No. of Hours with Temperature								
Rel. Hum.																≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total		
Dry Bulb																								
Wet Bulb																								
Dew Point																								

PSYCHROMETRIC SUMMARY

20229
STATION

PORTLAND IAP OR

73-79

YEARS

MAY
MONTH

PAGE 2

1500-1700
HOURS (L, S; T.)

[illegible]

PSYCHROMETRIC SUMMARY

NAV

MONTH

3850-2000

HOURS (L, S, T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-79

MAY
MONTH

PAGE 1

2100-2300
HOURS (L. S. T.)

[illegible]

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26.5 (OL A)

FORM 61

USAFETAC

PSYCHROMETRIC SUMMARY

MAY

MONTH

ALL

ALL
HOURS (L, S, T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-79

MAY

STATION

STATION NAME

YEARS

MONTH

PAGE 2

ALL
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

JUN

MONTH

0000-0200

HOURS (L, S, T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-79

JUN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0300-0500
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

26229 PORTLAND IAP OR

73-79

JUN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0600-0800
HOURS (L, S, T.)

[illegible]

PSYCHROMETRIC SUMMARY

JMM

MONTH

0900-1100.

HOURS (L, S, T)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

JUN

PAGE 1 1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
92/ 91												.2	.2					2	2					
91/ 89											.3	.3						4	4					
88/ 87										.6	.6	.2						9	9					
86/ 85									.2	.0	1.1	.3						15	15					
84/ 83									.8	2.1	1.0	.5						27	27					
82/ 81							.3	.5	1.3	.6	.3	.5						22	22					
81/ 79						.2	.6	1.4	.8	1.3	.8	.2	.2					34	34					
79/ 77						.2	.6	.8	1.4	1.0	.2	.2						27	27					
76/ 75						.5	.8	1.7	1.4	.5		.2						32	32					
74/ 73						1.0	1.9	2.5	1.1	.5								48	48					
72/ 71						1.4	2.9	2.7	.8									49	49		1			
71/ 69				.3		2.1	3.2	1.7	1.0									52	52		14			
68/ 67			.2		1.4	1.7	2.5	1.1	.3									46	46		30			
66/ 65			.5	.6	2.2	3.5	2.7	.6										64	64		42			
64/ 63			.5	1.0	2.2	2.2	1.9	.5										52	52		40			
62/ 61		.2	1.6	1.3	1.1	2.5	1.7											53	53		62			
59/ 59		.2	1.9	2.2	1.7	1.7	.6											53	53		89			
58/ 57		.3	1.1	1.6	.5	.3												24	24		96			
56/ 55			1.1	.2	.5													10	10		94			
54/ 53		.8	.5	.2														9	9		72			
52/ 51			.3															2	2		65			
51/ 49																					19			
48/ 47																					6			
46/ 45																								
44/ 43																								
42/ 41																								
40/ 39																								
38/ 37																								
36/ 35																								
34/ 33																								
32/ 31																								
TOTAL		1.4	7.5	7.3	9.7	17.3	19.8	13.7	9.0	7.3	4.3	2.1	.6					630		630				
Element (X)	Σx'		Σx		x̄		σ _x		No. Obs.		Mean No. of Hours with Temperature							Total						
Rel. Hum.	1736113		31875		50.6		14.006		630		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	91							
Dry Bulb	3.82692		43748		69.4		8.437		630				51.9	371.9	13.4		91							
Wet Bulb	2145963		36631		58.1		5.055		630				6.4				91							
Dew Point	154968		3142		49.3		5.660		630				.1				91							

USAFETAC FORM 44 JUL 64 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

73-79

STATION

STATION NAME

YEARS

JUN
MONTH

PAGE 1

1500-1700

HOURS (L; S; T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31		Dry Bulb	Wet Bulb	Dew Point
94/ 93												.2						1	1		
92/ 91												.3	.3	.2				5	5		
90/ 89											.8	.5	.3	.5				13	13		
88/ 87										.2	.8	1.3	.6	.6				22	22		
86/ 85								.3	.3	1.3	1.9	.8	.3					31	31		
84/ 83								.8	.6	1.0	1.3	1.0	.6					33	33		
82/ 81								.2	1.3	1.4	1.3	1.4	.2					36	36		
80/ 79								1.0	.8	1.7	.8	.6						31	31		
78/ 77								1.1	1.4	.3	.3	.2						21	21		
76/ 75							.3	1.4	2.5	1.1	.2	.3						37	37		
74/ 73						.5	2.4	2.7	2.4	1.0								56	56		
72/ 71						1.3	1.1	2.4	1.7	.3								43	43	4	
70/ 69					.3	1.0	1.9	1.9	1.4									41	41	15	
68/ 67			.5	.6	1.0	1.7	2.7	3.0	.2									61	61	29	
66/ 65			.2	.8	1.7	2.1	1.9	1.4										51	51	47	
64/ 63			.6	.5	1.6	2.2	2.4	.8										51	51	62	
62/ 61		.6	.8	.8	.8	1.4	.5											31	31	77	
60/ 59		.2	1.0	1.1	1.3	.8	.3											29	29	85	
58/ 57		.2	1.3	.3	.8													16	16	87	
56/ 55		.3	1.6	.2														13	13	89	
54/ 53		.3	.3	.2														5	5	89	
52/ 51			.5															3	3	90	
50/ 49																				10	
48/ 47																				4	
46/ 45																					
44/ 43																					
42/ 41																					
40/ 39																					
38/ 37																					
36/ 35																					
34/ 33																					
32/ 31																					
30/ 29																					
TOTAL		1.6	6.7	4.4	7.5	11.0	13.5	17.0	12.7	8.3	7.3	6.5	2.4	1.3				630	630	630	

Element (X)	Σx'	Σx	Σ	Σ ₂	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	1490168	29068	46.1	15.390	630	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	3309813	45299	71.9	9.151	630			61.6	40.9	21.7	.1	90
Wet Bulb	2196939	37069	58.8	5.014	630			6.9				90
Dew Point	1511250	30636	48.6	5.842	630							90

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

2429 PORTLAND IAP OR

73-79

JUN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1800-2000
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
9 / 89											.2	.2						2	2		
28 / 87										.2	.3	.2						4	4		
36 / 85									.2	.8	.2	.3	.2					10	10		
34 / 83									.6	.6	.8	.2	.2					15	15		
32 / 81									.5	.5	1.0	.8						17	17		
30 / 79							.2	.6	.8	1.1	.5							20	20		
28 / 77							.3	1.1	2.1	1.3	.3		.2					33	33		
26 / 75						.5	1.4	1.9	1.7	.8	.3							42	42		
24 / 73					.2	.8	1.6	1.9	1.4	.5								40	40		
22 / 71					.6	1.4	3.0	1.4	1.0	.2								48	48		
20 / 69					.8	1.7	1.6	1.9	1.1									45	45	6	
18 / 67			.5	.3	2.2	1.9	2.1	1.0	.2									51	51	17	
16 / 65			.2	.8	2.9	1.9	1.9	.8										53	53	21	
14 / 63		.3	.6	1.6	2.7	3.0	1.3	.3										62	62	56	
12 / 61		.5	1.3	1.6	2.2	2.3	.6											52	52	70	10
10 / 59		.3	2.5	2.1	2.7	1.7												59	59	91	15
8 / 57		.2	1.6	1.4	1.7	.5												34	34	84	21
6 / 55		.6	2.4	.6	.6	.2												28	28	96	60
4 / 53		.3	.6	.5	.2													10	10	85	65
2 / 51			.3															2	2	65	82
0 / 49			.3															2	2	27	99
48 / 47		.2																1	1	8	84
46 / 45																				4	61
44 / 43																					52
42 / 41																					37
40 / 39																					28
38 / 37																					14
36 / 35																					1
34 / 29																					1
TOTAL		2.4	10.3	8.9	16.8	15.7	14.0	11.4	9.5	6.3	3.3	.8	.5						630	630	630
																		630		630	
Element (X)	Σx'	Σx		X		Σx		No. Obs.		Mean No. of Hours with Temperature							Total				
Rel. Hum.	1935359	33625		53.4		14.956		630		≥ 0 F	≥ 32 F	≥ 47 F	≥ 73 F	≥ 80 F	≥ 93 F						
Dry Bulb	2934728	42692		67.8		8.142		630				46.7	26.1	8.6		96					
Wet Bulb	2.9.122	36172		57.4		4.764		630				3.3				90					
Dew Point	1537871	3.937		49.2		5.448		630			.1					90					

USAFETAC FORM 0-26-5 (OLA) REVED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

JUN

MONTH

2100-2300

HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

JUN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

ALL

HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL																																		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																																															
94/ 93													.1																			1	1																																		
92/ 91													.1	.1	.1																7	7																																			
90/ 89												.2	.2	.1	.1																19	19																																			
88/ 87												.2	.2	.1	.1																35	35																																			
86/ 85											.1	.1	.4	.4	.2	.1															56	56																																			
84/ 83										.1	.3	.5	.4	.2	.1																77	77																																			
82/ 81									.1	.2	.4	.4	.3	.2	.1																79	79																																			
80/ 79							.1	.2	.4	.3	.5	.3	.1	.1																	92	92																																			
78/ 77						.1	.2	.5	.7	.3	.1	.1	.1																		94	94																																			
76/ 75						.2	.9	.8	.8	.3	.1	.1																			132	132																																			
74/ 73				.5	.1	.6	1.0	1.1	.8	.2																					190	190																																			
72/ 71				.1	.2	.8	1.3	.9	.5	.1																					191	191	5																																		
70/ 69			.5	.1	.5	1.4	1.3	.8	.5																						235	235	35																																		
68/ 67			.1	.4	1.1	1.2	1.4	.7	.1																						259	259	87																																		
66/ 65		.1	.5	.9	1.9	1.6	1.1	.5	.1																						337	337	131																																		
64/ 63		.1	.5	1.6	2.3	1.7	.8	.2																							362	362	225																																		
62/ 61		.3	1.3	2.6	2.3	1.2	.5																								406	406	313																																		
60/ 59		.5	3.4	4.1	2.1	1.1	.2																								565	565	435																																		
58/ 57		.9	4.9	3.6	1.5	.3																									534	534	540																																		
56/ 55		1.3	5.3	2.5	.9	.1	.1																								507	507	763																																		
54/ 53		1.5	4.1	2.3	.2																										404	404	812																																		
52/ 51	.1	.7	2.4	.7	.1																										195	195	727																																		
50/ 49		.9	1.8	.3	.1																										149	149	475																																		
48/ 47		.6	.6	.1																											63	63	287																																		
46/ 45		.6	.1																												35	35	135																																		
44/ 43		.1	.1																												11	11	50																																		
42/ 41		.1																													2	2	14																																		
40/ 39																															3	3	196																																		
38/ 37																																	63																																		
36/ 35																																	24																																		
34/ 33																																	4																																		
32/ 31																																	4																																		
30/ 29																																	2																																		
Element (X)	Σ X ²			Σ X			X			Σ X			No. Obs.			Mean No. of Hours with Temperature																																																			
Rel. Hum.																≤ 0 F							≤ 32 F							≥ 67 F							≥ 73 F							≥ 80 F							≥ 93 F							Total									
Dry Bulb																																																																			
Wet Bulb																																																																			
Dew Point																																																																			

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24229 -PORTLAND IAP OR

73-79

411

STATION

STATION NAME

YEARS

MONTH

PAGE 1

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[illegible]

PSYCHROMETRIC SUMMARY

73-79

JUL

PAGE 1

1300-1500
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-79

JUL
MONTH

0600-0800
HOURS (L. S. T.)

HOURS (L, S, T.)

[illegible]

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

STATION

STATION NAME

YEARS

JUL
MONTH

PAGE 1

0900-1100
HOURS (L; S; T.)

[illegible]

PSYCHROMETRIC SUMMARY

Jul

MONTH

1250-1400

HOURS (L, S, T.)

Temp. (F)	WET-BULB TEMPERATURE DEPRESSION (F)																			TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
102/ 91																.2		1	1				
101/ 99																.2		1	1				
98/ 97																.3	.2	3	3				
96/ 95																.3		2	2				
94/ 93														.6	.3			6	6				
92/ 91											.2	.5	.3					6	6				
90/ 89										.5	1.2	.8	.5					19	19				
88/ 87										.9	1.7	.5	.2					21	21				
86/ 85									1.1	2.2	.6	.5	.2					29	29				
84/ 83									2.6	2.0	.9	.2						37	37				
82/ 81							.2	1.2	1.2	1.8	.3							31	31				
80/ 79							.8	2.3	2.6	1.4	.2	.2						48	48				
78/ 77							1.1	2.8	2.5	1.5	.2							52	52				
76/ 75						.5	2.5	3.2	1.8	.6	.2							56	56				
74/ 73						.8	2.9	2.8	1.1		.2							50	50				
72/ 71					.9	2.9	4.3	1.7	.6									68	68	11			
70/ 69				.2	1.5	3.2	2.6	1.6	.5									62	62	39			
68/ 67				.6	2.1	1.4	2.2	.6										44	44	66			
66/ 65			.2	.8	.9	4.0	.8											43	43	66			
64/ 63			.5	.8	2.9	2.2												38	38	79	1		
62/ 61			.5	.6	2.1													20	20	122	13		
60/ 59		.5	.5	.8	.3													13	13	99	41		
58/ 57			.2															1	1	72	72		
56/ 55																				65	120		
54/ 53																				31	79		
52/ 51																				1	99		
50/ 49																					104		
48/ 47																					67		
46/ 45																					34		
44/ 43																					27		
42/ 41																					6		
40/ 39																					1		
38/ 37																					3		
Element (X)	Σ X ²		Σ X		X		σ _x		No. Obs.		Mean No. of Hours with Temperature												
Ref. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total
Dry Bulb																							
Wet Bulb																							
Dew Point																							

PSYCHROMETRIC SUMMARY

73-79

YEARS

MONTH

PAGE 7

1200-1400
HOURS (L, S, T:)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229

PORTLAND IAP OR

73-79

JUL

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1500-1700

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
12/ 1																	.3	.3	4	4				
13/ 99																		.2	1	1				
98/ 97																.3	.5	.6	9	9				
96/ 95														.2		.2	.2		3	3				
94/ 93											.2		.8	.8		.6	.2		16	16				
92/ 91											1.2	1.5	.6	.6	.3				28	28				
90/ 89										.3	.3	2.0	1.2	.3	.2				28	28				
88/ 87										.6	1.7	1.2	.5	.5					29	29				
86/ 85									1.4	1.2	2.8	.8	.2	.2					42	42				
84/ 83								.6	.8	2.2	2.8	.2	.2						43	43				
82/ 81								.3	2.9	1.8	2.0	.9							52	52				
80/ 79							.3	3.2	2.0	2.5	.8	.2							58	58				
78/ 77							.6	2.2	2.0	.9									37	37				
76/ 75						.2	1.2	2.9	1.2	1.1									43	43				
74/ 73				.2		.8	3.5	3.2	1.4										59	59	1			
72/ 71				.3	.6	1.1	2.5	1.8	.8										46	46	15			
70/ 69			.2	.6	.9	2.0	2.0	2.2											51	51	50			
68/ 67			.2	.6	1.1	1.2	1.8												28	28	63			
66/ 65			.3	.6	.9	2.6	.6												33	33	108			
64/ 63			.6	.9	.6	1.1													21	21	89			
62/ 61			.3	1.1	.5														12	12	112			
60/ 59			.3	.2															3	3	83			
58/ 57			.2																1	1	75			
56/ 55			.6																4	4	38			
54/ 53																					15			
52/ 51																					2			
50/ 49																								
48/ 47																								
46/ 45																								
44/ 43																								
42/ 41																								
40/ 39																								
38/ 37																								
Element (X)	Σ X ²		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ			
Rel. Hum.																								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC FORM 0-26-5 (OL A) JUL 64 REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

34229

PORTLAND IAP OR

73-79

— **July**

STATION

STATION NAME

YEARS

MONTH

PAGE 2

1500-1700

HOURS (L, S, T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

21229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

YEARS

JUL
MONTH

PAGE 1

1600-2000
HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
12/ 1																	.2	1	1					
98/ 97																.2	.2	2	2					
96/ 95															.2			1	1					
94/ 93														.2		.2		2	2					
92/ 91										.2		.2	.5					5	5					
90/ 89										.2	.9	.5	.3					12	12					
88/ 87										.6	1.7	.9	.2					22	22					
86/ 85									.8	.9	1.4	.6	.2					25	25					
84/ 83								.3	.8	2.5	1.1	.2	.2					32	32					
82/ 81							.2	1.2	1.7	1.4	1.1							36	36					
80/ 79							.8	2.5	1.2	.8	.8							39	39					
78/ 77						.2	2.0	2.9	2.2	1.1								54	54					
76/ 75						.5	2.9	1.8	1.1	.3								43	43					
74/ 73					.3	2.3	3.5	2.5	.5	.6								56	56		1			
72/ 71				.3	1.1	3.1	3.2	1.4	.5									62	62		3			
70/ 69				.2	2.6	3.2	2.6	.8	.3									63	63		28			
68/ 67				1.1	1.7	3.2	1.2											47	47		53			
66/ 65			.2	1.2	3.1	3.1	.5											52	52		80			
64/ 63		.8	.6	.9	1.5	1.4												34	34		96			
62/ 61		.2	1.2	1.1	2.5													32	32		123			
60/ 59		1.1	.8	.8	.9													23	23		88			
58/ 57		.2	.3	.2														4	4		87			
56/ 55			.5															3	3		59			
54/ 53			.2															1	1		26			
52/ 51																					7			
50/ 49																								
48/ 47																								
46/ 45																								
44/ 43																								
42/ 41																								
TOTAL		2.2	3.7	5.5	13.7	16.9	16.9	12.4	8.9	8.4	6.9	2.3	1.2	.3	.2	.3	.2	651	651		651			
Element (X)	Σ X ²		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ			
Rel. Hum.	1782498		32892		50.5		13.622		651		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F			
Dry Bulb	3549899		47769		73.4		8.294		651						71.7		47.1		22.1		.9			
Wet Bulb	24654.1		39965		61.4		4.286		651						17.1		.1							
Dew Point	1633425		34427		52.9		4.447		651															

USAFETAC FORM 0-26-5 (OLA) JUL 64

REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

20229

PORTLAND IAP OR

73-79

JUL

STATION

STATION NAME

YEARS

MONTH

PAGE 1

2100-2300
HOURS (L, S, T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229

PORTLAND IAP OR

73-79

STATION

STATION NAME

YEARS

JUL

MONTH

PAGE 1

ALL

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL												
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point														
12/ 99																.1	.1	6	6															
16/ 97																.0	.1	2	2															
20/ 95															.0	.1	.1	14	14															
24/ 93															.0	.1	.0	6	6															
28/ 91											.0	.2	.2	.2	.1	.0		25	25															
32/ 89										.0	.2	.3	.2	.1	.0			39	39															
36/ 87										.1	.3	.4	.2	.0	.0			59	59															
40/ 85										.3	.7	.3	.1	.1				74	74															
44/ 83									.4	.6	.6	.2	.1	.0				99	99															
48/ 81								.1	.5	.9	.6	.1	.0					116	116															
52/ 79							.0	.5	.9	.7	.4	.1						136	136															
56/ 77							.3	1.2	.8	.6	.2	.0						168	168															
60/ 75						.0	.8	1.4	1.0	.4	.0							188	188															
64/ 73						.5	1.4	1.2	.6	.2	.0							204	204															
68/ 71				.0	.0	1.2	1.9	1.2	.4	.1	.0							249	249		2													
72/ 69				.1	1.1	1.7	1.8	.9	.2									305	305		29													
76/ 67			.0	.3	1.9	2.3	1.5	.6	.1									357	357	120														
80/ 65			.1	1.2	2.2	1.7	1.0	.1										326	326	209														
84/ 63		.2	.5	2.4	2.6	1.9	.4											411	411	323														
88/ 61		.3	1.5	3.3	2.5	1.4	.0											469	469	460	12													
92/ 59		.5	3.3	3.5	2.3	.2	.1											511	511	629	79													
96/ 57		1.2	4.9	3.9	1.3	.0												592	592	711	199													
56/ 55		1.3	4.1	2.7	.3													435	435	839	531													
54/ 53		.7	2.8	.8														228	228	787	871													
52/ 51		.6	1.4	.2	.1													115	115	586	760													
50/ 49		.6	.9															53	53	366	879													
48/ 47		.2	.0															15	15	118	799													
46/ 45		.1																4	4	24	598													
44/ 43		.1																1	1	3	353													
42/ 41																																		
40/ 39																				1	39													
38/ 37																																		
36/ 35																																		
Element (X)	Σ X ²			Σ X			Σ			Σ			No. Obs.			Mean No. of Hours with Temperature																		
Rel. Hum.																≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total												
Dry Bulb																																		
Wet Bulb																																		
Dew Point																																		

USAFETAC FORM 0-26-5 (OL A) JUL 64

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

20229

PORTLAND IAP OR

73-79

1113

STATION

STATION NAME

YEARS

MONTH

PAGE 2

414

HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-79

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0000-0200
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

24229

PORTLAND IAP OR

73-79

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1

2300-0500

HOURS (L: S: T:)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0600-0800
HOURS (L: S: T:)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
78/ 75						.5												3	3			
74/ 73							.3											2	2			
72/ 71				.2	.3		.2											4	4			
71/ 69					.5	.8												8	8			
68/ 67				.6	.9	.2												11	11			
66/ 65		.2	.8	2.5	.8													27	27	4		
64/ 63		1.5	6.9	3.5	.8													83	83	3		
62/ 61		4.5	8.8	4.5	.9													121	121	39	4	
61/ 59		6.9	12.9	5.1	.6	.2												167	167	118	24	
53/ 57		4.8	9.5	2.3	.5													111	111	140	106	
56/ 55		3.8	4.8	.8														61	61	146	117	
54/ 53		1.4	2.2	.2														24	24	108	113	
52/ 51		1.2	1.2															16	16	57	139	
51/ 49		.9	.5															9	9	19	69	
48/ 47		.6																4	4	15	48	
46/ 45																				2	23	
44/ 43																					7	
42/ 41																					1	
TOTAL		25.8	47.5	19.5	5.2	1.5	.5											651	651	651	651	

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0900-1100
HOURS (L: S: T:)

[illegible]

PSYCHROMETRIC SUMMARY

73-79

AUG

STATION NAME

YEARS

MONTH

PAGE 1

1200-1400
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
94/ 93																	.2	.2	2	2				
93/ 99																	.5	.2	4	4				
98/ 97																	.5	.3	6	6				
96/ 95														.2			.2		2	2				
94/ 93														.5			.3		5	5				
92/ 91												.2		.2			.2		3	3				
97/ 89											.3	.9							8	8				
88/ 87										.2	1.2	.2							10	10				
86/ 85											.3	1.2							15	15				
84/ 83											.3	1.5	1.4						25	25				
82/ 81											.8	2.5	.6						26	26				
87/ 79						.2	.9	2.2	2.0	.6	.3								40	40				
78/ 77						.3	1.8	3.1	.9										41	41				
76/ 75					.2	1.5	4.3	3.5	1.1	.2	.2								71	71				
74/ 73					.5	2.5	3.1	2.0	.2	.6									57	57	2			
72/ 71					1.4	2.6	3.2	1.8	.6	.2									64	64	7			
77/ 69				.6	3.2	3.1	1.7	1.5	.5	.2									70	70	38			
68/ 67			.3	.9	3.0	3.1	2.2	.5	.2										68	68	49			
66/ 65			1.2	1.8	4.1	2.3	.8	.2											67	67	75			
64/ 63		.6	1.8	1.2	1.4	.5	.2												37	37	110			
62/ 61		.5	1.1	.6	.3														16	16	108			
67/ 59		.9	1.1																13	13	127			
58/ 57			.2																1	1	183			
56/ 55																					46			
54/ 53																					14			
52/ 51																								
57/ 49																								
48/ 47																								
46/ 45																								
44/ 43																								
42/ 41																								
47/ 39																								
38/ 37																								
35/ 35																								
Element (X)	Σ x ²	Σ x		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.												≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total						
Dry Bulb																								
Wet Bulb																								
Dew Point																								

PSYCHROMETRIC SUMMARY

24229

PORTLAND IAP OR

73-79.

4116

STATION

STATION NAME

YEARS

MONTH

PAGE 2

1200-1400
HOURS (L.S.T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1500-1700

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
14/13																	.3	2	2			
12/11																	.6	6	6			
10/9														.5	.2	.2	.6	9	9			
98/97															.2			5	5			
96/95															.3			2	2			
94/93													.2	.3	.2			4	4			
92/91											.2	2.0	.8		.2			20	20			
90/89											.8	1.1	.3	.2				15	15			
88/87											.9	.9	.3	.2				21	21			
86/85									.5	1.4	1.8	.3						26	26			
84/83								.5	1.8	3.8	2.8	.5						61	61			
82/81							.2	1.1	2.5	1.5	.5	.3						39	39			
80/79								2.5	2.0	.6	.5	.3						38	38			
78/77							1.2	5.2	1.5	.6								56	56			
76/75						1.4	1.2	1.8	2.3	.5	.8							52	52			
74/73					.2	1.1	1.4	3.4	1.4	.3								50	50	2		
72/71					1.5	.9	2.3	2.0	.3	.3								48	48	15		
70/69					2.9	1.4	2.2	1.1	.3									51	51	47		
68/67			.5	.8	1.2	2.9	1.4	.2										45	45	55		
66/65		.2	1.5	2.3	1.2	.2	.6											37	37	115		
64/63			1.7	1.2	.5													22	22	94	4	
62/61		.6	2.9	.3	.3													27	27	91	11	
60/59		.9	.9															12	12	110	53	
58/57		.2	.3															3	3	98	108	
56/55																				31	128	
54/53																				3	90	
52/51																					86	
50/49																					64	
48/47																					50	
46/45																					26	
44/43																					10	
42/41																					13	
40/39																					5	
38/37																					2	
Element (X)	Σ X ²		Σ X		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature							Total		
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F				
Dry Bulb																						
Wet Bulb																						
Dew Point																						

FORM 0-26-5 (OLA) REVISD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

24229

PORTLAND IAP OR

73-79

-AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 2

1500-1700

HOURS (L: S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
76 / 35 TOTAL		1.8	7.4	4.8	7.8	7.8	10.4	17.7	12.6	10.0	8.1	5.4	1.5	1.1	1.4	.9	1.2		651		651
																		651		651	

PSYCHROMETRIC SUMMARY

AUG

MONTH

1600-2000

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
96 / 97														.3	.2	.2		4	4		
96 / 95															.2			1	1		
94 / 93													.2	.2	.2			3	3		
92 / 91													.2	.3				3	3		
90 / 89										.6	.5	.3						9	9		
88 / 87										.3	.8			.2				8	8		
86 / 85									.5	1.2	.2	.5						15	15		
84 / 83									1.4	1.2	.3							19	19		
82 / 81							.2	1.2	2.2	1.1	.2							31	31		
80 / 79							.5	2.0	1.1	.8								33	33		
78 / 77						.2	2.2	3.4	.9									43	43		
76 / 75						1.8	2.0	1.1	.9									43	43		
74 / 73			.2	.3	2.8	4.5	1.2	.3	.2									61	61		
72 / 71		.3	2.6	1.8	2.9	.8	.2											56	56	3	
70 / 69		.2	.8	4.5	3.7	1.2	.8	.5										72	72	24	
68 / 67		.2	1.8	2.8	2.6	1.2	.3											58	58	45	
66 / 65	.2	1.1	1.8	4.1	2.3	.8	.3											69	69	84	
64 / 63	.5	1.8	1.4	1.2	.9	.3												40	40	110	2
62 / 61	.9	2.8	1.4	.8	.5													41	41	101	14
60 / 59	2.8	1.8	.9	.2														37	37	104	84
58 / 57	.5	.3																5	5	93	118
56 / 55																				64	143
54 / 53																				19	84
52 / 51																				4	88
50 / 49																					52
48 / 47																					43
46 / 45																					12
44 / 43																					0
42 / 41																					15
40 / 39																					5
TOTAL		4.8	8.1	8.6	16.0	16.6	16.4	11.8	7.8	4.8	2.0	.9	.6	.9	.5	.2		651	651	651	
Element (X)	Σx'	Σx		X	%	No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.	2195227	36525		56.1	14.985	651		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total							
Dry Bulb	3378185	46609		71.6	7.958	651				68.6	39.7	15.1	1.1	93							
Wet Bulb	2457967	39914		61.3	4.069	651				10.3				93							
Dew Point	1917792	35220		54.1	4.357	651								93							

PSYCHROMETRIC SUMMARY

 AUG
MONTH

PAGE 1 2100-2300
HOURS (L: S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

YEARS

AUG
MONTH

PAGE 1

ALL
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
47/13																	.0	.1													4	4			
52/18																	.1	.2													6	6			
57/23																	.2	.3													13	13			
62/28																	.3	.4													15	15			
67/33																	.4	.5													5	5			
72/38																	.5	.6													12	12			
77/43																	.6	.7													26	26			
82/48																	.7	.8													35	35			
87/53																	.8	.9													41	41			
92/58																	.9	1.0													61	61			
97/63																	1.0	1.1													110	110			
102/68																	1.1	1.2													108	108			
107/73																	1.2	1.3													116	116			
112/78																	1.3	1.4													161	161			
117/83																	1.4	1.5													203	203			
122/88																	1.5	1.6													236	236	4		
127/93																	1.6	1.7													258	258	25		
132/98																	1.7	1.8													343	343	104		
137/103																	1.8	1.9													363	363	163		
142/108																	1.9	2.0													475	475	342	1	
147/113																	2.0	2.1													548	548	485	11	
152/118																	2.1	2.2													626	626	670	76	
157/123																	2.2	2.3													651	651	914	397	
162/128																	2.3	2.4													427	427	892	875	
167/133																	2.4	2.5													212	212	798	1005	
172/138																	2.5	2.6													75	75	475	806	
177/143																	2.6	2.7													48	48	212	857	
182/148																	2.7	2.8													22	22	80	515	
187/153																	2.8	2.9													7	7	39	363	
192/158																	2.9	3.0													1	1	4	165	
197/163																	3.0	3.1																1	58
202/168																	3.1	3.2																53	
207/173																	3.2	3.3																21	
212/178																	3.3	3.4																3	
Element (X)	Σ X ²					Σ X					X					Σ X					No. Obs.					Mean No. of Hours with Temperature									
Rel. Hum.																										≤ 0 F					≤ 32 F				
Dry Bulb																										≥ 67 F					≥ 73 F				
Wet Bulb																										≥ 80 F					≥ 93 F				
Dew Point																																			

USAFETAC FORM 4-64 JUL 64 C-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

20229

PORTLAND IAP OR

73-79

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 2

ALL

HOURS (L, S, T.)

[illegible]

PSYCHROMETRIC SUMMARY

34229

PORTLAND IAP OR

73-79

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1

3000-0200

HOURS (L, S, T.)

[illegible]

PSYCHROMETRIC SUMMARY

21229
STATION

PORTLAND IAP OR

73-79

SEP
MONTH

PAGE 1

0300-0500
HOURS (L, S, T.)

[illegible]

PSYCHROMETRIC SUMMARY:

24229
STATIC

PORTLAND IAP OR

73-79

SEP
MONTH

PAGE 1

0600-0800
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

SEP
MONTH

PAGE 1

1970-1100
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
86/ 85												.2	.2					2	2		
84/ 83										.2	.2	.3						4	4		
82/ 81												.2	.2					3	3		
8 / 79								.2	.2	.6	.5	.2	.2					10	10		
79/ 77								.6	.6	.3	.2	.3						13	13		
76/ 75						.2	.5	.6	.3	.2	.2							12	12		
74/ 73					.2	1.0	.8	.5	1.1	.5								25	25		
71/ 71					.5	1.6	1.1	.6	.2	.3								27	27		
7 / 69				.5	2.7	2.4	1.0	.3	.2									44	44		
68/ 67			1.1	1.3	3.7	1.7	.8	.3	.3									58	58		
66/ 65		.3	1.1	4.9	3.3	1.9	.2		.2									75	75	13	
64/ 63		.2	2.5	4.3	3.3	1.7		.2										77	77	37	5
62/ 61		1.0	4.6	5.1	4.1	.2												93	93	74	6
6 / 59		3.5	4.5	4.1	1.7													82	82	123	14
59/ 57		2.1	4.8	1.9														55	55	121	62
56/ 55		1.6	2.7	.8														32	32	132	127
54/ 53		1.3	.6	.2														13	13	86	86
52/ 51		.2	.2															2	2	30	114
5 / 49	.2	.2																2	2	13	92
46/ 47																					58
46/ 45																					32
44/ 43																					14
42/ 41																					3
4 / 39																					8
36/ 37																					4
35/ 35																					3
33/ 33																					1
TOTAL	.21	.222	.123	.118	.610	.74	4.3	3.3	3.2	2.1	1.0	1.1	.3					629	629		629
																		629		629	
Element (X)	Σx²		Σx		X̄		σx		No. Obs.		Mean No. of Hours with Temperature										
Rel. Hum.	2935156		41826		66.5		15.654		629		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total				
Dry Bulb	2625107		41442		64.3		6.278		629				28.3	9.9	2.6		9.1				
Wet Bulb	2461689		36121		57.4		3.433		629								9.1				
Dew Point	1713661		32707		52.0		4.541		629								9.1				

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

20229 PORTLAND IAP OR

73-79

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1200-1400

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
98/ 97																	.2	1	1			
96/ 95																	.3	2	2			
94/ 93															.2			1	1			
92/ 91												.3		.3	.5	.5		10	10			
90/ 89											.2	.5	.5	.3	.6			13	13			
88/ 87											.2	.2	1.0	.3				17	17			
86/ 85									.2	.5	.8	.6	1.1	.5				23	23			
84/ 83									.8	.3	1.0	.3	.5	.6				22	22			
82/ 81								.5	1.0	.6	.6	1.3	.5					28	28			
80/ 79								1.3	.5	.8	.6	.5	.2					24	24			
78/ 77							.3	1.1	1.0	.2	.8	.3						23	23			
76/ 75						1.1	1.9	1.6	.5	.8	1.0							43	43			
74/ 73				.2	.2	2.5	3.2	1.4	.5	.6								54	54			
72/ 71				.3	1.4	2.5	3.0	1.0	.6									56	56			
70/ 69			.3	.2	2.7	3.2	2.4	1.0	.2									62	62		6	
68/ 67			.3	1.3	2.9	2.5	2.5	.3										62	62		22	
66/ 65		.3	.8	2.2	4.1	2.5	.2											64	64		46	
64/ 63		.5	1.4	2.2	3.2	1.9	.2											59	59		91	
62/ 61		.5	1.3	2.5	1.3	.3												37	37		113	
60/ 59			1.3	1.1	.2													16	16		119	
58/ 57		1.1	.3	.5														12	12		112	
56/ 55		.8																5	5		86	
54/ 53		.2	.2															2	2		29	
52/ 51																					5	
50/ 49																						
48/ 47																						
46/ 45																						
44/ 43																						
42/ 41																						
40/ 39																						
38/ 37																						
36/ 35																						
TOTAL		3.3	5.9	10.5	15.9	16.7	13.7	8.1	5.1	3.8	5.1	4.0	3.7	2.1	1.3	.5	.5	629	629		629	
Element (X)	Σx²		Σx		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ	
Rel. Hum.	1895468		32728		52.8		17.511		629		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F	
Dry Bulb	3272356		45160		71.6		8.405		629						62.1		36.3		17.3		.6	
Wet Bulb	227518		37760		60.0		3.653		629						4.7							
Dew Point	1672151		32237		51.3		5.624		629													

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

20229 PORTLAND IAP OR

73-79

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
06/ 95																	.3	2	2		
04/ 93													.2	.2			.5	.3	7	7	
02/ 91												.2	.3	.3	1.1	.6			16	16	
09/ 89												.2	.5	.3	.6				19	19	
08/ 87										.3	.8	.3	.8	1.1					21	21	
06/ 85									.4	1.0	1.1	.6	1.1	.8					31	31	
04/ 83									.3	.8	1.3	1.1	.6	.8					31	31	
02/ 81								.3	1.1	.8	1.4	.6	.8						32	32	
01/ 79						.2	1.6	.6	1.0	.3	.6								27	27	
08/ 77					.2	1.4	1.0	.3	.2	.5	1.4	.2							32	32	
06/ 75					.6	2.4	2.4	1.7	.3	.8									52	52	
04/ 73				.4	2.5	2.9	2.2	1.0	.2										58	58	
02/ 71		.3	.3	1.1	2.1	3.7	1.4	.8											59	59	
01/ 69		.2		1.4	2.4	2.1	1.3	.2											46	46	9
08/ 67		.2	.6	1.7	2.2	1.7	.6												42	42	30
06/ 65	.3	1.7	1.7	2.5	2.2	1.2													56	56	57
04/ 63	.3	1.4	1.9	1.6	1.7														44	44	105
02/ 61	.2	1.7	1.6	.5	.2														21	21	103
01/ 59	.6	1.7	.8	.8															25	25	117
08/ 57	1.3	.6																	12	12	93
06/ 55	.5	.5																	6	6	79
04/ 53																				34	79
02/ 51																				3	88
01/ 49																					61
08/ 47																					63
06/ 45																					34
04/ 43																					37
02/ 41																					22
01/ 39																					23
08/ 37																					11
06/ 35																					13
04/ 33																					3
TOTAL		3.2	6.9	7.0	9.7	14.1	15.4	10.6	6.0	4.3	6.3	5.1	4.4	3.5	1.7	1.1	.6	630	630	630	630
Element (X)	Z _X ¹	Z _X		X	X _a	No. Obs.		Mean No. of Hours with Temperature						Total							
Rel. Hum.	1706088	30722		48.8	18.269	630		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total							
Dry Bulb	3438773	46204		73.3	8.919	630				66.6	45.6	22.3	1.3	90							
Wet Bulb	2311844	38786		60.5	3.865	630				5.6				90							
Dew Point	1644376	31952		50.7	6.158	630								90							

FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC JUL 64

PSYCHROMETRIC SUMMARY

73-79

SFP

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1800-2000
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
92 / 94															.2			1	1			
90 / 87											.2				.2			2	2			
86 / 85													.3	.5				5	5			
84 / 83									.3	.2	.2	.5						7	7			
82 / 81								.3	.5	.2	.3	.8						13	13			
80 / 79							.3	.6	.3	.8	.5	.3	.2					19	19			
78 / 77							1.1	1.0	.5	.6	1.0	.3	.2					29	29			
76 / 75						.5	1.3	.8	.6	.6	.3	.3						28	28			
74 / 73					.8	1.4	1.7	1.4	1.1	.5	.3							46	46			
72 / 71				.2	2.4	1.7	1.6	.8	.2	1.0								49	49			
70 / 69			.2	.8	2.7	2.2	2.2	.6	.5	.3								60	60			
68 / 67			1.7	2.7	3.2	2.2	1.1	.2	.2	.2								57	57			
66 / 65		.2	.5	3.5	2.7	2.4	.5		.2									62	62	27		
64 / 63		1.1	3.2	3.7	2.2	1.9												76	76	73	1	
62 / 61		.8	1.7	2.1	2.5	.6	.2											50	50	91	11	
60 / 59		1.7	1.6	2.2	1.9													47	47	123	35	
58 / 57		2.4	2.1	1.1	.3													37	37	110	91	
56 / 55		1.9	1.3	.3														22	22	79	92	
54 / 53		1.1	.3															8	8	89	78	
52 / 51			.2															1	1	24	84	
50 / 49		.2																1	1	5	69	
48 / 47																				1	61	
46 / 45																					37	
44 / 43																					18	
42 / 41																					11	
40 / 39																					15	
38 / 37																					6	
36 / 35																					5	
34 / 33																					2	
32 / 31																					1	
30 / 29																						
TOTAL		9.2	11.9	16.5	18.7	13.0	10.0	5.7	4.0	4.4	2.7	1.9	1.1	.6	.2			630	630	630	630	
																		630		630		

Element (X)	Z _x [†]	Z _y	X̄	s _x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	2470393	37807	67.0	17.901	630	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	2688591	42419	67.3	7.182	630			46.6	21.4	5.1		99
Wet Bulb	2164456	36848	58.5	3.836	630			1.1				91
Dew Point	1695641	32468	51.5	5.961	630		.4					91

PSYCHROMETRIC SUMMARY

73-79

YEARS

SEE
MONTH

PAGE 1 2100-2300
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229

PORTLAND IAP OR

73-79

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1

ALL

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL						
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point					
98/ 97																		.0	1	1						
96/ 95																		.1	4	4						
94/ 93													.0	.0				.0	8	8						
92/ 91												.1	.0	.1	.0	.1		.1	27	27						
9 / 89											.0	.1	.1	.1	.2				23	23						
88/ 87										.0	.1	.1	.2	.2					33	33						
86/ 85									.1	.2	.2	.2	.3	.2					61	61						
84/ 83									.1	.2	.3	.2	.2	.2					64	64						
82/ 81								.1	.3	.2	.3	.4	.2						75	76						
8 / 79							.1	.5	.2	.4	.3	.2	.0						81	81						
78/ 77						.0	.4	.5	.3	.2	.3	.3	.0						98	98						
76/ 75						.3	.8	.7	.4	.3	.3	.2							139	139						
74/ 73				.1	.2	1.0	1.1	.7	.5	.2	.1								195	195						
72/ 71			.1	.1	.7	1.1	1.2	.5	.2	.2									204	204						
7 / 69			.3	1.4	1.4	1.0	.4		.2	.0									248	248	15					
68/ 67			.5	1.0	1.6	1.3	.9	.2	.2	.0									287	287	60					
66/ 65		.2	.7	2.0	1.9	1.3	.3	.1	.1										376	376	149					
64/ 63		.8	2.5	3.0	1.8	1.3	.1	.1	.1										475	475	329	15				
62/ 61		1.4	3.5	2.6	1.5	.2	.0	.0											468	468	474	65				
6 / 59	.1	4.1	1.3	2.1	.7														568	568	758	153				
58/ 57	.2	4.5	3.8	1.5	.1	.1													516	516	897	529				
56/ 55	.2	4.6	1.2	.8	.1	.0													450	450	817	843				
54/ 53	.1	3.3	1.7	.2															269	269	658	753				
52/ 51	.1	2.6	.4	.1															177	177	449	739				
5 / 49	.1	1.7	.2																99	99	227	700				
48/ 47	.2	1.1																	69	69	133	545				
46/ 45	.2	.3																	25	25	65	301				
44/ 43		.7																	2	2	6	133				
42/ 41																					1	73				
4 / 39																						81				
38/ 37																						56				
36/ 35																						35				
34/ 33																						12				
32/ 31																						4				
Element (X)	Σ X ²		Σ X		X		Σ X		No. Obs.		Mean No. of Hours with Temperature														Total	
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total			
Dry Bulb																										
Wet Bulb																										
Dew Point																										

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUL 64

USAFETAC

PSYCHROMETRIC SUMMARY

YEARS

SEP
MONTH

HOURS (L, S, T.)

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0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC FORM 0-26-5 (OLA)

PSYCHROMETRIC SUMMARY

20229

PORTLAND IAP OR

73-79

ОСТ

STATION

STATION NAME

YEARS

MONTH

PAGE 1

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HOURS (L, S, T.)

[illegible]

PSYCHROMETRIC SUMMARY

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MONTH

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HOURS (L; S; T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

29229
STATION

PORTLAND IAP OR
STATION NAME

73-79
YEARS

OCT
MONTH

PAGE 1 5600-0800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
62 / 57								.2										1	1		
64 / 63					.2		.2											2	2		
62 / 61			.3	.3			.2											6	6		
61 / 59		.5	1.2															11	11	1	
58 / 57		3.2	2.2	.2			.2											37	37	13	5
56 / 55		5.5	1.8				.2											49	49	36	17
54 / 53	.8	7.7	1.6	.3														69	69	53	45
52 / 51	.3	8.6	2.5			.2												75	75	73	56
51 / 49	.5	9.5	1.4															74	74	89	81
49 / 47	3.0	12.6	1.1															102	102	91	97
47 / 45	3.1	8.6	.3	.2														79	79	106	110
44 / 43	3.2	6.6	.3															66	66	81	78
42 / 41	2.5	4.2	.2															44	44	59	78
41 / 39	1.7	.3	.2															14	14	24	44
33 / 37	1.7	.2																12	12	13	19
36 / 35	.8	.2																6	6	7	9
34 / 33	.3	.2																3	3	4	4
32 / 31																					3
27 / 29																					3
28 / 27																					1
TOTAL	16.8	67.8	13.4	.9	.2	.2	.6	.2										650	650	650	650

PSYCHROMETRIC SUMMARY

24229
STATION

PORTLAND IAP OR

73-79

OCT
MONTH

PAGE 1

1980-1981
HOURS (L. S. T.)

Temp. (F)	WET-BULB TEMPERATURE DEPRESSION (F)																			TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	O.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
8 / 79												.2						1	1				
78 / 77												.2						1	1				
78 / 75											.2							2	2				
74 / 73									.3	.3								4	4				
72 / 71								.3	.2	.2								4	4				
7 / 69					.2	.2		.2	.2	.2								5	5				
68 / 67					.3	.6	.2	.2			.2							9	9				
66 / 65			.2	.9	.8	.5			.2									16	16				
64 / 63			.3	1.8	1.2	.3	.3	.2	.2	.2								28	28				
62 / 61		.2	1.8	1.8	2.6	.2		.3	.2									46	46				
6 / 59		1.7	2.5	2.6	1.2	.5	.3	.2										58	58	19			
58 / 57	.2	2.2	4.9	4.3	.8	.8												85	85	58	9		
56 / 55	.3	3.1	5.4	4.1	.8	.2												89	89	74	30		
54 / 53	.2	3.4	5.8	.6	.2													66	66	80	58		
52 / 51	.2	4.1	5.7	1.2	.3													74	74	103	63		
50 / 49	.2	6.9	3.4			.2												69	69	109	87		
48 / 47	.8	5.2	1.2	.2														48	48	108	118		
46 / 45	.3	3.4	.8															29	29	55	117		
44 / 43	.8	1.2																13	13	32	78		
42 / 41	.5	.2																4	4	9	43		
40 / 39																				1	23		
38 / 37																					9		
36 / 35																					4		
34 / 33																					3		
32 / 31																					2		
30 / 29																					3		
28 / 27																					2		
26 / 25																					1		
24 / 23																					1		
TOTAL	3.2	31.3	32.0	17.5	8.3	3.1	.8	1.2	1.1	.9	.3	.3						651	651		651		
																		651		651			
Element (X)	Σx'		Σx		X		%		No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.	3937442		49700		76.3		14.840		651		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total
Dry Bulb	1999935		35857		55.1		6.190		651						3.7		1.1		.1				93
Wet Bulb	1790703		33157		50.9		4.285		651														93
Dew Point	1462198		30682		47.1		4.967		651				1.3										0

GLOBAL CLINATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

OCT
MONTH

PAGE 2 1250-1400
HOURS (L: S: T:)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point													
86/ 85													.2	.3				3	3														
84/ 83												.2	.3					2	2														
82/ 81											.2	.5						4	4														
80/ 79											.3	.3						4	4														
78/ 77								.2	.3	.6	.5							11	11														
76/ 75							.3	.2	.5	.2								7	7														
74/ 73						.3	.5	.2	.6	.6	.3							16	16														
72/ 71						.9	.9	.5	.6	.5	.3	.3						22	22														
70/ 69					.5	.9	.5	.9	.6	.2	.3							25	25														
68/ 67				.2	1.1	1.8	.5	.5	.5	.5	.2							30	30														
66/ 65				2.5	1.2	3.2	1.7	.5	.6	.9								69	69														
64/ 63			.9	2.6	3.7	4.2	1.1	.9										87	87													6	
62/ 61		.2	1.9	3.1	3.5	1.2	.8	.2										68	68													22	
60/ 59		.5	2.5	4.9	2.8	.9	.5											78	78													66	
58/ 57		.6	3.1	3.7	2.5	.5												67	67													7	
56/ 55		.2	2.2	3.2	.5													39	39													56	
54/ 53		.8	4.3	1.7	.3													46	46													110	
52/ 51		.9	3.8	.2														32	32													73	
50/ 49		3.2	1.2															29	29													64	
48/ 47		1.1	.2															8	8													119	
46/ 45		.3	.2															3	3													8	
44/ 43																																	124
42/ 41																																	3
40/ 39																																	40
38/ 37																																	25
36/ 35																																	17
34/ 33																																	4
32/ 31																																	7
30/ 29																																	7
28/ 27																																	6
26/ 25																																	6
TOTAL		7.7	19.8	22.0	16.0	14.0	6.5	3.8	2.8	3.4	2.2	1.2	.3	.3				650														650	
																		650														650	
Element (X)	Σx ²		Σx		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		
Rel. Hum.	2677379		40173		61.8		17.312		650		Σ 0 F.		Σ 32 F.		Σ 67 F.		Σ 73 F.		Σ 80 F.		Σ 93 F.		Total										
Dry Bulb	2485528		39922		61.4		7.193		650						17.7		6.7		1.4				93										
Wet Bulb	2889102		34940		53.8		4.106		650														93										
Dew Point	1450018		31468		46.9		5.804		650				2.7										93										

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

73-79

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STATION

STATION NAME

- YEARS

MONTH

PAGE 1

1500-1700
HOURS (L. S. T.)

[illegible]0-26-5 (Q1A)² REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

USAFETAC FORM 100-40

PSYCHROMETRIC SUMMARY

Oct.

MONTH

1800-2000

HOURS (L, S, T):

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
76/ 75											.2	.2						2	2					
74/ 73								.2			.5							4	4					
72/ 71						.2	.3	.2	.3	.3								8	8					
7 / 69					.5	.5		.5	.2	.2	.2							12	12					
68/ 67				.3	.6	.5	.2	.5	.3	.2	.2							17	17					
66/ 65				.6	1.1	.8	.2	.6	.3	.2	.2							19	19					
64/ 63			1.4	1.7	1.4	.5	.2	.5	.2	.2								38	38					
62/ 61		.6	2.3	2.6	1.8	.2	.5	.3	.2									55	55		9			
60/ 59		.8	3.1	2.9	2.3	1.2	.3	.3	.8									76	76	34	1			
58/ 57		1.2	5.7	3.1	2.5	.5	.2	.3										84	84	47	16			
56/ 55		2.3	6.6	4.1	.9			.2										88	88	79	30			
54/ 53		2.8	6.6	1.7	.6	.5												75	75	96	48			
52/ 51		1.2	5.7	.8	.3													52	52	94	69			
50 / 49		4.1	2.8	.2														46	46	109	87			
48/ 47		4.0	2.2		.2													46	46	83	104			
46/ 45	.2	2.3	.8															21	21	57	107			
44/ 43		.9	.2															7	7	34	59			
42/ 41		.2																1	1	9	46			
40/ 39																					33			
38/ 37																					16			
36/ 35																					11			
34/ 33																					3			
32/ 31																					2			
30/ 29																					4			
28/ 27																					6			
26/ 25																					3			
24/ 23																					2			
22/ 21																					3			
20/ 19																					1			
TOTAL	.2	21.2	35.9	18.0	11.7	4.6	1.7	3.1	1.8	.8	.9	.2						651	651		651			
																		651		651				
Element (X)	Σx^2		Σx		\bar{x}		σ_x		No. Obs.		Mean No. of Hours with Temperature													
Rel. Num.	3516734		46640		71.6		16.138		651		≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total	
Dry Bulb	2096371		36739		56.4		6.204		651						6.1		.9						93	
Wet Bulb	1728282		33416		51.3		4.477		651														93	
Dew Point	1433681		34286		46.5		6.165		651						3.2								93	

PSYCHROMETRIC SUMMARY

73-79

Oct
MONTH

PAGE 1 2100-2300
HOURS (L: S: T:)

[illegible]

PSYCHROMETRIC SUMMARY

24229

PORTLAND IAP OR

73-79

065

STATION

STATION NAME

YEARS

MONTH

PAGE 1



HOURS (L, S, T, N)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

OCT
MONTH

— 441 —

HOURS (L, S, T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-79

NÓV:

YEARS

MONTH

PAGE 1

0000-0200
HOURS (L: S, T, I)

[illegible]

PSYCHROMETRIC SUMMARY

24429	PORTLAND TAP OR
STATION	STATION NAME

73-79

YEARS

NOV
MONTH

PAGE 1

0300-0500
HOURS (L, S, T.)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

NOV
MONTH

0600-0800
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

NOV

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0909-1700
HOURS (L. S. T.)

Temp. (F)	WET-BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																
48/ 61					.2													1	1																	
46/ 55				.2														1	1																	
44/ 63			.2															1	1																	
52/ 61		.2	.2		.2	.2												4	4																	
57/ 59			.6	.6	.2	.6												13	13														4			
56/ 57			1.2	.5	.8	.2												15	15													1	2			
50/ 55		.8	1.3	1.3	.2	.2												23	23												6	3				
44/ 53		1.6	2.2	1.3	.8	.2												36	36												23	5				
52/ 51		2.5	2.5	.5	.3													37	37												25	14				
57/ 49	.3	4.8	4.1	.6	1.7													68	68												53	31				
48/ 47	.5	7.1	4.6	2.1	.5	.2												89	89												67	43				
46/ 45	.8	5.3	1.9	1.6	.3													58	58												78	61				
44/ 43	1.1	5.6	2.9															60	60												63	64				
42/ 41	1.4	5.6	1.3	.6	.3													58	58												91	70				
47/ 39	1.3	3.1	.6	1.1	.3	.2												41	41												52	73				
38/ 37	3.2	2.7	.2	.3	.5	.2												43	43												51	77				
36/ 35	1.1	1.1	.5	.6	.2													22	22												28	44				
34/ 33	1.2	1.6	.6	.5														23	23												23	32				
32/ 31	1.8	1.3	.5	.6														26	26												30	38				
37/ 29	.6	.2																5	5												17	14				
28/ 27	.5																	3	3												11	15				
26/ 25		.2																1	1												4	9				
24/ 23																																1	5			
22/ 21																																	7			
27/ 19																																	6			
18/ 17																																	3			
16/ 15																																	1			
14/ 13																																	3			
7/ 9																																	3			
TOTAL	13.4	43.3	24.5	11.5	5.6	1.8													628													628		628		
Element (X)	Σ x'			Σ x			Σ x			Σ x			Σ x			Σ x			Σ x			Σ x			Σ x			Σ x			Σ x			Σ x		
Rel. Hum.	4237814			50764			89.6			14.637			628			≤ 0 F			≤ 32 F			≥ 67 F			≥ 73 F			≥ 80 F			≥ 93 F			Total		
Dry Bulb	1308299			28301			45.2			7.244			628			5.0			.1															90		
Wet Bulb	1155527			26615			42.4			6.631			628			9.0																		90		
Dew Point	999283			24549			39.1			7.952			628			15.6																		90		

498
USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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9

USAFETAC FORM 0-26-5 (OL-A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

24529. PORTLAND IAP OR
STATION STATION NAME

73-79.

NOV
MONTH

PAGE 2 1200-1400
HOURS (L.S.T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-79

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PAGE 1 1800-2000
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-79

NOV

STATION.

STATION NAME

YEARS

MONTH

PAGE 2

2100-2300

HOURS (L, S, T.)

[illegible]

PSYCHROMETRIC SUMMARY

73-79

NOV
MONTH

- All

HOURS (L; S; T):

[illegible]

USAFETAC FORM 0-26-5 (OLTA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUN 64

PSYCHROMETRIC SUMMARY

73-79

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- STATION

STATION NAME

YEARS

MONTH

PAGE 2

ALL
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

DEC
MONTH

PAGE 1 0000-0200
HOURS (L. S. T.)

[illegible]

3

PSYCHROMETRIC SUMMARY

ĐỀ C

MONTH

0300-0500

HOURS (L, S, T.)

USAFETAC FORM JUL 64 0-26-5 (OLA) -REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE-

PSYCHROMETRIC SUMMARY

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MONTH

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HOURS (L, S, T)

[illegible]

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79.

DẪN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1967-1969

HOUSE (L: S: T:)

Temp. (F)	WET-BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
57/59		.2		.2														2	2				
58/57		.2	1.1	.2														9	9	1			
58/55		.9	.8															11	11	2	2		
54/53		.8	1.1	.2														13	13	15	1		
52/51		2.0	2.8	.2														32	32	13	9		
51/49		3.7	1.2	.2	.2													34	34	22	22		
48/47	.2	6.3	2.3	.8	.2													63	63	49	33		
46/45	.3	6.6	2.6	.6	.2													67	67	53	37		
44/43	.8	8.3	2.5	1.1	.2													83	83	82	56		
42/41	1.4	6.6	2.3	1.5	.2													78	78	75	74		
41/39	.8	6.5	2.2	.9														67	67	67	65		
34/37	1.2	4.6	1.2	.8														51	51	81	64		
16/35	2.5	3.8	.3	.5														46	46	59	77		
34/33	2.9	2.6	.2															37	37	61	63		
32/31	2.6	2.7																30	30	32	58		
21/29	1.8	.2																13	13	23	34		
28/27	.5			.2														4	4	4	23		
26/25	.2	.2	.2															3	3	2	14		
24/23																					1		
22/21	.2		.2															2	2	3	8		
20/19		.3	.2															3	3	2	1		
18/17																				2			
16/15		.3																2	2		1		
14/13		.2																1	1	2			
12/11																				1	1		
10/9																					1		
8/7																					3		
6/5																					1		
4/3																					2		
TOTAL	15.2	56.1	23.9	7.1	.8													651	651		651		
																		651		651			

PSYCHROMETRIC SUMMARY

73-79

050

PAGE 1

1250-1400
HOURS (11:30-1:30)

[illegible]

PSYCHROMETRIC SUMMARY

73-79

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STATION

STATION NAME

YEARS

MONTH

PAGE 1

1500-1700
HOURS (1:30 - 3:30)

[illegible]

USAFETAC
FORM 0-26-5 (Q1-A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

24229 PORTLAND IAP OR

73-79

DEC

STATION

STATION NAME

YEARS

MONTH

PAGE 1

2100-2300
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																							TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point						
62/ 61					.2													1	1								
57/ 59				.2														1	1								
56/ 57				.2														1	1								
56/ 55		.5	2.3		.2													19	19								
54/ 53		1.1	.3															9	9		8						
52/ 51		1.1	1.2															15	15	21	5						
51/ 49	.3	3.4	.5	.3														29	29	13	24						
46/ 47	.5	6.7	.2	.2	.2													45	45	42	26						
46/ 45	1.1	6.0	2.5	.3														64	64	54	55						
44/ 43	1.1	7.1	3.2	.3														76	76	54	43						
42/ 41	2.3	7.3	3.4	1.7	.5													98	98	81	53						
41/ 39	1.9	4.6	1.9	.5														57	57	63	56						
36/ 37	3.7	5.9	2.3	.2														78	78	82	81						
35/ 35	1.9	6.0	1.5	.8														66	66	65	71						
34/ 33	2.0	2.6	.2	.5														34	34	67	55						
32/ 31	3.1	1.2	.2	.5														12	32	35	85						
27/ 29	.9	.3																8	8	20	29						
28/ 27		.2																1	1	6	25						
25/ 25	.2		.2															2	2	4	6						
24/ 23			.2															1	1		10						
22/ 21		.2																1	1	2	5						
19/ 19	.5	.2	.5															7	7	5	1						
18/ 17																				2	3						
16/ 15			.5															3	3	1	4						
14/ 13																					5						
12/ 11																				3							
9/ 7																					3						
3/ 1																					3						
TOTAL	19.3	53.5	20.8	5.4	.9													648	648	648	648						
Element (X)	2x ¹	2x	X	°x	No. Obs.		Mean No. of Hours with Temperature							Total													
Rel. Hum.	4816733	55353	85.9	11.689	648	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F																
Dry Bulb	1117855	26547	41.0	6.751	648		7.9						93														
Wet Bulb	123615	25403	39.2	6.551	648		11.2						93														
Dew Point	913429	23805	36.7	7.757	648		25.7						93														

FORM 0-26-5 (OL A) - REVISED EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC
JUL 64

PSYCHROMETRIC SUMMARY

73-79

DEC

STATION

STATION NAME

YEARS

MONTH

PAGE 1

HOURS (L; S; T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point				
62/ 61			.1	.0	.0													3	3					
61/ 59		.1	.0	.2	.0													15	15					
56/ 57		.1	.5	.1	.0													38	38	5				
56/ 55		.9	1.4	.2	.0													128	128	9				
54/ 53		1.3	1.7	.4	.0													131	131	107				
52/ 51		1.7	1.8	.2	.1													198	198	139				
51/ 49	.1	3.4	1.6	.3	.1													291	291	165				
46/ 47	.9	5.4	1.7	.7	.3													444	444	378				
45/ 45	1.2	6.5	2.3	.7	.1													561	561	477				
44/ 43	1.7	7.2	3.0	1.0	.2													646	646	520				
42/ 41	1.8	6.7	3.2	1.3	.2													662	662	614				
41/ 39	1.3	5.2	1.9	.9	.1													486	486	613				
38/ 37	1.6	5.7	1.7	.3														484	484	610				
36/ 35	2.2	3.9	1.2	.3														398	398	531				
34/ 33	2.2	2.7	.2	.1														273	273	455				
32/ 31	2.4	1.5	.0	.1	.0													216	216	253				
31/ 29	1.4	.3	.0	.1														98	98	163				
28/ 27	.8	.1	.0	.0														36	36	54				
26/ 25	.2	.1	.1															18	18	19				
24/ 23	.1	.0	.1															8	8	11				
22/ 21	.1	.0	.1															11	11	11				
20/ 19	.2	.2	.1															23	23	21				
18/ 17		.2	.1															15	15	11				
16/ 15	.1	.1	.1															14	14	17				
14/ 13		.0																2	2	9				
12/ 11																				7				
10/ 9																				14				
8/ 7																				18				
6/ 5																				6				
4/ 3																				7				
2/ 1																				9				
TOTAL	16.4	53.3	22.5	7.1	1.1													5199	5199	5199				
Element (X)	Σx ²		Σx		Σ		Σ ₂		No. Obs.		Mean No. of Hours with Temperature													
Rel. Num.	378636.6		439374		84.5		11.863		5199		≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total	
Dry Bulb	933345.4		217297		41.8		6.953		5199				63.4										744	
Wet Bulb	847617.0		207110		39.6		6.588		5199				82.4										744	
Dew Point	750998.2		193670		37.3		7.540		5199				184.0										744	

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3

73-79

STATION

STATION NAME

YEARS

MONTH

PAGE 2

ALL

HOURS (L; S; T.)

[illegible]

USAFETAC FORM 0-26-5 (OIA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

73-75

YEARS

**ALL
MONTH**

PAGE 2

ALL
HOURS (L.S.T.)

[illegible]

FORM 0-26-5 (OL-A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
JUL 64

USAFÉTAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

24229 PORTLAND IAP OR

73-79

STATION		STATION NAME										YEARS			
HRS. (L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
0-02	MEAN	36.3	40.4	43.1	46.0	51.1	56.8	61.1	61.2	58.0	50.2	42.2	40.7	49.0	
	S.D.	8.137	5.541	4.842	4.703	5.065	4.965	4.697	4.233	4.397	5.568	7.084	6.926	10.089	
	TOTAL OBS	650	590	651	630	651	629	651	651	630	650	629	651	7663	
3-05	MEAN	35.7	39.8	41.6	44.1	48.9	54.4	58.3	58.8	55.7	48.8	41.7	40.3	47.4	
	S.D.	8.370	5.771	5.235	4.832	4.751	4.420	3.910	3.779	4.625	5.531	7.324	7.098	9.475	
	TOTAL OBS	651	591	651	629	651	629	651	651	630	650	630	651	7665	
16-18	MEAN	35.6	39.6	41.3	45.0	51.2	57.0	60.4	59.7	56.4	48.8	41.6	40.0	48.1	
	S.D.	8.489	5.908	5.313	4.893	5.000	4.798	4.162	4.036	4.682	5.506	7.414	7.203	10.160	
	TOTAL OBS	651	590	651	630	651	629	650	651	630	650	630	650	7663	
19-11	MEAN	37.9	42.6	46.5	51.3	57.6	63.4	67.5	66.1	64.3	55.1	45.1	41.8	53.3	
	S.D.	7.856	5.726	5.257	5.404	6.460	6.494	6.225	5.677	6.278	6.190	7.244	6.991	11.907	
	TOTAL OBS	651	591	651	630	651	630	651	651	629	651	628	651	7665	
12-14	MEAN	41.3	46.9	51.8	56.6	62.8	69.4	74.7	73.2	71.6	61.4	48.9	44.7	58.7	
	S.D.	7.776	6.006	6.290	6.879	8.385	8.437	8.249	7.974	8.405	7.193	7.364	6.451	13.655	
	TOTAL OBS	650	591	651	630	651	630	651	651	629	650	630	651	7665	
15-17	MEAN	41.2	47.4	53.2	58.2	64.3	71.9	77.8	76.2	73.3	62.2	48.3	44.1	59.9	
	S.D.	7.912	6.147	7.288	7.997	9.373	9.151	9.031	9.292	8.919	7.812	7.296	6.276	14.926	
	TOTAL OBS	651	591	651	630	651	630	651	651	630	651	630	649	7666	
8-20	MEAN	38.5	43.8	49.1	54.1	60.4	67.8	73.4	71.6	67.3	56.4	45.0	41.8	55.8	
	S.D.	7.905	5.332	6.247	7.175	8.557	8.142	8.294	7.958	7.182	6.204	6.893	6.348	13.832	
	TOTAL OBS	650	589	651	629	651	630	651	651	620	651	630	648	7661	
21-23	MEAN	37.2	41.9	45.3	49.2	54.5	60.8	65.8	65.0	61.4	52.5	43.6	41.0	51.4	
	S.D.	7.983	5.213	4.864	5.554	6.288	5.959	5.891	5.453	4.908	5.506	6.983	6.751	11.300	
	TOTAL OBS	651	591	651	630	651	630	651	651	630	651	630	648	7665	
ALL HOURS	MEAN	38.0	42.8	46.5	50.6	56.3	62.7	67.4	66.5	63.5	54.4	44.6	41.8	53.0	
	S.D.	8.326	6.379	7.108	7.864	8.821	9.095	9.466	8.839	9.026	7.978	7.673	6.953	12.877	
	TOTAL OBS	5205	4724	5208	5038	5208	5037	5207	5208	5038	5206	5037	5199	6111	

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

24229 PORTLAND IAP OR

73-79

STATION		STATION NAME												YEARS
HRS. (L.S.T.)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
0-02	MEAN	34.5	38.4	40.6	43.3	47.6	52.3	56.0	56.8	54.7	48.1	40.5	39.2	46.0
	S.D.	8.332	5.436	4.740	4.269	4.140	4.182	3.671	3.523	3.733	4.771	6.759	6.644	8.995
	TOTAL OBS	650	590	651	630	651	629	651	651	630	650	629	651	7663
03-05	MEAN	34.1	37.9	39.5	42.0	46.3	51.0	54.5	55.5	53.2	47.3	40.1	38.8	45.1
	S.D.	8.452	5.602	5.051	4.487	4.072	4.021	3.426	3.496	4.006	4.906	6.978	6.760	8.768
	TOTAL OBS	651	591	651	629	651	629	651	651	630	650	630	651	7665
06-08	MEAN	34.0	37.7	39.4	42.7	47.8	52.6	55.7	56.0	53.7	47.3	40.0	38.6	45.5
	S.D.	8.581	5.721	5.030	4.376	3.988	3.987	3.305	3.360	3.896	4.890	7.021	6.841	9.117
	TOTAL OBS	648	590	651	630	651	629	650	651	630	650	630	650	7660
09-11	MEAN	35.7	39.9	42.7	46.3	51.2	55.6	58.8	58.9	57.4	50.9	42.4	39.9	48.4
	S.D.	8.107	5.474	4.528	4.186	4.499	4.515	3.910	3.480	3.433	4.285	6.631	6.588	9.419
	TOTAL OBS	650	591	651	630	651	630	651	651	629	651	628	651	7664
12-14	MEAN	38.0	42.5	45.5	49.0	53.5	58.1	61.6	61.7	60.0	53.8	44.6	41.9	50.9
	S.D.	7.907	5.241	4.718	4.663	4.876	5.055	4.493	4.072	3.653	4.106	6.518	6.176	9.604
	TOTAL OBS	650	591	651	630	651	630	651	651	629	650	630	651	7665
15-17	MEAN	37.8	42.6	45.8	49.5	53.8	58.8	62.6	62.6	60.5	53.8	44.1	41.4	51.1
	S.D.	8.060	5.149	4.950	4.791	4.873	5.014	4.386	4.174	3.865	4.465	6.655	6.105	9.975
	TOTAL OBS	651	591	651	630	651	630	651	651	630	651	630	649	7664
18-20	MEAN	36.1	40.6	43.7	47.4	52.0	57.4	61.4	61.3	58.5	51.3	42.2	39.8	49.4
	S.D.	8.189	5.042	4.803	4.783	4.885	4.764	4.286	4.069	3.836	4.477	6.673	6.258	10.082
	TOTAL OBS	650	589	651	628	651	630	651	651	630	651	630	648	7660
21-23	MEAN	35.2	39.4	41.9	45.1	49.4	54.3	58.3	58.7	56.3	49.5	41.3	39.2	47.4
	S.D.	8.243	5.126	4.551	4.385	4.444	4.449	3.838	3.747	3.586	4.571	6.758	6.551	9.409
	TOTAL OBS	651	591	651	630	651	630	651	651	630	651	630	648	7665
ALL HOURS	MEAN	35.7	39.9	42.4	45.7	50.2	55.0	58.6	58.9	56.8	50.2	41.9	39.8	48.0
	S.D.	8.358	5.644	5.333	5.230	5.213	5.288	4.858	4.529	4.569	5.192	6.943	6.588	9.687
	TOTAL OBS	5201	4724	5208	5037	5208	5037	5207	5208	5038	5204	5037	5199	61308

GLOBAL CLIMATOLOGY BRANCH
USAF-ETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

24229 PORTLAND IAP OR

73-79

STATION	STATION NAME	YEARS
HRS. (L.S.T.)	MEAN S.D. TOTAL OBS	JAN. FEB. MAR. APR. MAY JUN. JUL. AUG. SEP. OCT. NOV. DEC. ANNUAL
0-02	31.0 11.036 650	35.4 7.284 590
3-05	30.8 10.927 651	35.1 7.299 591
6-08	30.7 11.021 648	34.9 7.404 590
9-11	31.7 11.219 650	36.1 7.535 591
12-14	32.6 11.330 650	36.9 7.699 591
15-17	32.3 11.415 651	36.5 7.660 591
18-20	31.8 11.214 650	36.2 7.346 589
21-23	31.6 10.977 631	36.0 7.227 591
ALL HOURS	31.6 11.155 5201	35.9 7.456 4724
		37.4 6.233 5208
		40.4 5.319 5037
		44.5 4.705 5208
		48.7 5.077 5037
		52.2 4.189 5207
		53.5 4.191 5208
		51.6 5.043 5204
		46.4 5.507 5037
		38.4 8.235 5199
		37.3 7.540 5199
		43.2 9.558 61308

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24229 PORTLAND IAP OR

73-79

JAN

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02	100.0	100.0	100.0	98.6	93.5	86.6	81.8	68.2	37.5	82.2	650
	03-05	100.0	100.0	100.0	98.8	94.2	89.6	84.3	71.6	35.8	83.3	651
	06-08	100.0	100.0	100.0	98.3	94.1	89.2	83.2	72.2	36.4	83.3	648
	09-11	100.0	100.0	99.8	96.6	91.2	84.2	77.8	62.9	26.5	79.6	650
	12-14	100.0	100.0	99.5	95.5	84.9	74.8	64.0	40.9	12.9	73.0	650
	15-17	100.0	100.0	99.4	95.1	87.4	72.4	58.7	39.5	14.3	72.3	651
	18-20	100.0	100.0	100.0	97.4	92.9	85.1	71.7	53.7	22.8	77.7	680
	21-23	100.0	100.0	100.0	98.0	93.1	89.1	79.6	65.6	29.2	81.1	651
TOTALS		100.0	100.0	99.8	97.3	91.4	83.9	75.1	59.3	26.9	79.1	5201

RELATIVE HUMIDITY

FEB

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02	100.0	100.0	99.0	98.3	97.1	93.7	86.4	72.9	33.7	83.6	590
	03-05	100.0	100.0	99.0	98.0	97.0	95.1	86.5	75.0	35.7	84.4	591
	06-08	100.0	100.0	99.3	97.8	96.9	94.7	86.1	76.4	35.8	84.2	590
	09-11	100.0	99.7	99.0	97.5	94.8	89.7	78.5	54.3	18.4	79.2	591
	12-14	100.0	99.0	97.6	95.1	88.2	75.3	54.8	27.6	7.4	70.1	591
	15-17	100.0	99.3	97.3	92.7	85.1	68.2	48.9	25.4	6.8	68.2	591
	18-20	100.0	100.0	98.8	96.6	93.7	85.1	68.7	47.7	13.2	76.3	589
	21-23	100.0	100.0	99.0	98.1	94.9	90.7	80.2	63.1	23.2	80.7	591
TOTALS		100.0	99.8	98.8	96.8	93.5	86.6	73.8	55.3	21.8	78.3	4724

RELATIVE HUMIDITY

73-79.

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STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02	100.0	100.0	100.0	98.5	96.6	93.4	85.7	61.8	15.1	80.6	651
	03-05	100.0	100.0	100.0	99.4	97.4	94.2	91.7	71.6	23.7	83.6	651
	06-08	100.0	100.0	100.0	99.5	97.8	94.6	91.7	73.0	25.7	84.1	651
	09-11	100.0	100.0	99.1	97.4	93.9	85.1	67.1	32.7	5.8	73.7	651
	12-14	100.0	100.0	96.6	90.8	75.1	52.4	31.5	13.4	2.2	61.7	651
	15-17	100.0	99.5	94.2	82.8	61.9	42.7	26.3	10.4	1.1	57.5	651
	18-20	100.0	100.0	98.0	93.1	82.2	62.7	39.8	17.8	3.5	65.5	651
	21-23	100.0	100.0	99.5	98.0	94.6	87.6	71.4	34.3	6.5	75.1	651
TOTALS		100.0	99.9	98.4	94.9	87.4	77.1	63.2	39.6	10.5	72.7	5208

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24229 PORTLAND IAP OR

73-79

APR

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02	100.0	100.0	99.7	99.5	98.9	96.7	85.6	52.4	12.2	80.4	630
	03-05	100.0	100.0	100.0	100.0	99.5	98.9	95.1	72.8	21.8	84.4	629
	06-08	100.0	100.0	100.0	99.5	99.4	98.3	92.5	65.2	18.3	83.0	630
	09-11	100.0	100.0	99.8	99.2	94.1	78.4	46.0	16.7	2.2	68.9	630
	12-14	100.0	100.0	97.8	90.2	67.8	40.2	20.5	7.6	.5	58.1	630
	15-17	100.0	99.8	94.1	76.0	53.7	36.5	22.7	8.7	1.3	54.7	630
	18-20	100.0	100.0	97.8	89.8	71.2	51.6	33.6	16.6	4.1	62.2	628
	21-23	100.0	100.0	99.5	98.6	94.4	83.3	58.1	31.0	8.4	73.0	630
TOTALS		100.0	100.0	98.6	94.1	84.9	73.0	56.8	33.9	8.6	70.6	5037

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24229 PORTLAND IAP OR

73-79

MAY

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	100.0	100.0	99.8	99.1	94.8	79.4	36.9	7.8	77.5	651
	03-05	100.0	100.0	100.0	99.8	99.4	97.7	91.6	61.4	14.7	82.4	651
	06-08	100.0	100.0	100.0	100.0	99.4	95.5	79.7	44.1	8.4	78.4	651
	09-11	100.0	100.0	99.4	98.0	90.3	60.4	30.3	7.8	.9	64.3	651
	12-14	100.0	99.7	96.3	84.3	58.4	30.1	14.0	6.5	.2	54.6	651
	15-17	100.0	99.2	89.9	71.3	48.2	28.6	18.3	7.1	.2	51.7	651
	18-20	100.0	99.4	95.9	84.3	62.8	40.7	25.7	15.5	1.7	58.3	651
	21-23	100.0	100.0	99.8	98.5	92.5	77.0	48.2	22.1	5.5	69.9	651
TOTALS		100.0	99.8	97.7	92.0	81.3	65.6	48.4	25.2	4.9	67.1	5208

USAF ETAC

FORM
JUL 64

0-97-5 (OL 1)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

RELATIVE HUMIDITY

24229 PORTLAND IAP OR

73-79

JUN

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-02	100.0	100.0	100.0	99.5	98.3	90.3	65.5	15.9	2.4	73.3	629
	03-05	100.0	100.0	100.0	100.0	100.0	98.4	87.6	39.6	4.0	79.0	629
	06-08	100.0	100.0	100.0	99.8	99.0	93.0	67.6	20.5	2.1	73.8	629
	09-11	100.0	99.8	99.7	96.3	79.2	46.7	17.6	4.9	.2	60.5	630
	12-14	100.0	99.7	96.0	76.2	43.3	19.8	10.5	3.8		50.6	630
	15-17	100.0	99.5	87.5	58.3	31.1	15.7	10.0	3.3	.3	46.1	630
	18-20	100.0	99.8	95.6	78.3	53.0	28.1	14.6	4.9	.6	53.4	630
	21-23	100.0	100.0	99.8	98.1	89.0	68.4	31.1	11.0	1.3	65.7	630
TOTALS		100.0	99.9	97.3	88.3	74.1	57.5	38.1	13.0	1.4	62.8	5037

USAF ETAC

FORM
JUL 64

0-87-5 (OL 1)

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0-87.5 (OL 1)

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24229 PORTLAND IAP OR

73-79

AUG

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02	100.0	100.0	100.0	99.7	99.2	95.1	72.2	25.7	3.2	75.7	651
	03-05	100.0	100.0	100.0	100.0	100.0	99.1	90.3	50.1	5.8	80.8	651
	06-08	100.0	100.0	100.0	100.0	99.7	96.8	84.6	40.9	4.9	78.9	651
	09-11	100.0	100.0	99.8	97.5	89.4	64.4	29.8	8.4	.3	64.9	651
	12-14	100.0	99.5	95.2	81.1	50.7	24.1	9.4	3.8		52.0	651
	15-17	100.0	98.0	88.2	61.8	33.5	20.9	10.4	5.4		47.5	651
	18-20	100.0	99.7	97.2	86.0	61.9	34.6	15.7	9.4	.2	56.1	651
	21-23	100.0	100.0	100.0	98.9	94.6	77.7	37.0	14.3	.9	68.3	651
TOTALS		100.0	99.7	97.6	90.6	78.6	64.1	43.7	19.8	1.9	65.5	5298

3
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24229 PORTLAND IAP OR

73-79

SEP

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02	100.0	100.0	100.0	98.7	97.9	96.3	86.2	50.3	15.1	80.8	630
	03-05	100.0	100.0	100.0	99.2	98.6	98.6	94.8	73.7	23.3	85.1	630
	06-08	100.0	100.0	100.0	99.7	99.2	98.1	91.6	69.4	21.0	84.2	630
	09-11	100.0	99.8	95.8	92.7	85.2	69.6	42.6	17.5	3.3	66.5	629
	12-14	100.0	96.0	85.2	76.0	56.3	31.5	12.9	5.1	1.0	52.0	629
	15-17	100.0	93.5	80.6	66.8	45.9	25.4	11.9	5.1	.3	48.8	630
	18-20	100.0	98.4	91.7	84.8	71.7	50.6	28.7	12.7	2.4	60.0	630
	21-23	100.0	100.0	99.0	96.5	94.0	83.3	62.5	28.3	5.1	73.1	630
TOTALS		100.0	98.5	94.2	89.2	81.1	69.2	53.9	33.1	8.9	68.8	5038

USAF ETAC

FORM
JUL 64

0-87-5 (OL 1)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24229 PORTLAND IAP OR

73-79

OCT

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	00-02	100.0	100.0	99.7	98.8	98.3	97.7	94.3	80.0	36.6	86.6	650
	03-05	100.0	100.0	100.0	99.5	99.1	98.9	97.4	88.8	52.6	89.7	650
	06-08	100.0	100.0	100.0	99.5	99.1	98.9	98.2	89.2	55.4	90.0	650
	09-11	100.0	99.8	98.3	96.2	94.0	87.9	71.1	43.0	12.4	76.3	651
	12-14	100.0	98.9	93.1	87.1	77.2	55.8	34.8	12.2	2.2	61.8	650
	15-17	100.0	98.9	90.9	83.1	69.3	47.5	28.6	12.0	2.6	59.0	651
	18-20	100.0	99.8	96.0	93.7	88.9	80.5	63.1	29.6	6.5	71.6	651
	21-23	100.0	100.0	98.6	97.7	96.0	93.7	87.6	61.8	18.1	81.4	651
TOTALS		100.0	99.7	97.1	94.5	90.2	82.6	71.9	52.1	23.3	77.1	5204

USAF ETAC

FORM
JUL 64

O-87-5 (OL 1)

3
GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

24229 PORTLAND IAP OR

73-79

NOV

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	00-02	100.0	100.0	100.0	99.5	97.9	94.6	88.4	78.7	44.8	86.4	629
	03-05	100.0	100.0	100.0	99.5	98.9	95.4	89.5	79.8	49.4	87.4	630
	06-08	100.0	100.0	100.0	99.5	98.9	95.1	88.9	81.1	45.2	87.2	630
	09-11	100.0	100.0	99.8	99.0	96.0	88.9	78.7	58.9	26.6	80.2	628
	12-14	100.0	100.0	98.6	96.8	87.3	74.8	57.1	32.2	10.3	71.6	630
	15-17	100.0	100.0	98.7	96.5	89.7	75.7	59.4	34.8	10.0	72.1	630
	18-20	100.0	100.0	100.0	98.4	97.5	86.5	75.1	57.3	21.4	79.5	630
	21-23	100.0	100.0	100.0	98.6	97.0	92.1	81.9	67.9	31.3	82.9	630
TOTALS		100.0	100.0	99.5	98.5	95.4	87.9	77.4	61.3	29.9	81.0	5037

RELATIVE HUMIDITY

73-79

DEC

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	00-02	100.0	100.0	100.0	100.0	100.0	97.4	90.6	79.3	46.1	87.4	651
	03-05	100.0	100.0	100.0	100.0	99.5	96.9	91.6	82.2	48.4	88.0	651
	06-08	100.0	100.0	100.0	100.0	100.0	97.4	92.0	81.8	48.9	86.1	650
	09-11	100.0	100.0	100.0	100.0	99.8	94.9	89.6	72.5	34.7	85.1	651
	12-14	100.0	100.0	100.0	100.0	97.2	89.2	78.3	51.3	18.1	79.1	651
	15-17	100.0	100.0	100.0	99.8	98.0	90.8	77.5	52.5	19.6	79.4	649
	18-20	100.0	100.0	100.0	100.0	98.9	94.3	84.4	68.4	31.0	83.6	648
	21-23	100.0	100.0	100.0	100.0	98.6	94.9	86.1	73.3	39.8	85.4	648
TOTALS		100.0	100.0	100.0	100.0	99.0	94.5	86.3	70.2	35.8	84.5	5199

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

RELATIVE HUMIDITY

24229 PORTLAND IAP OR

73-79

ALL

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	99.8	97.3	91.4	83.9	75.1	59.3	26.9	79.1	5201
FEB		100.0	99.8	98.6	96.8	93.5	86.6	73.8	55.3	21.8	78.3	4724
MAR		100.0	99.9	98.4	94.9	87.4	77.1	63.2	39.6	10.5	72.7	5208
APR		100.0	100.0	98.6	94.1	84.9	73.0	56.8	33.9	8.6	70.6	5037
MAY		100.0	99.8	97.7	92.0	81.3	65.6	48.4	25.2	4.9	67.1	5208
JUN		100.0	99.9	97.3	88.3	74.1	57.5	38.1	13.0	1.4	62.8	5037
JUL		100.0	99.4	96.6	86.6	71.3	53.0	32.3	10.0	.7	60.9	5207
AUG		100.0	99.7	97.6	90.6	78.6	64.1	43.7	19.8	1.9	65.5	5208
SEP		100.0	98.5	94.2	89.2	81.1	69.2	53.9	33.1	8.9	68.8	5038
OCT		100.0	99.7	97.1	94.5	90.2	82.6	71.9	52.1	23.3	77.1	5204
NOV		100.0	100.0	99.6	98.5	95.4	87.9	77.4	61.3	29.9	81.0	5037
DEC		100.0	100.0	100.0	100.0	99.0	94.5	86.3	70.2	35.8	84.5	5199
TOTALS		100.0	99.7	98.0	93.6	85.7	74.6	60.1	39.4	14.6	72.4	61308

USAF ETAC

FORM
JUL 64

0-87-5 (OL 1)

U.S. AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART F

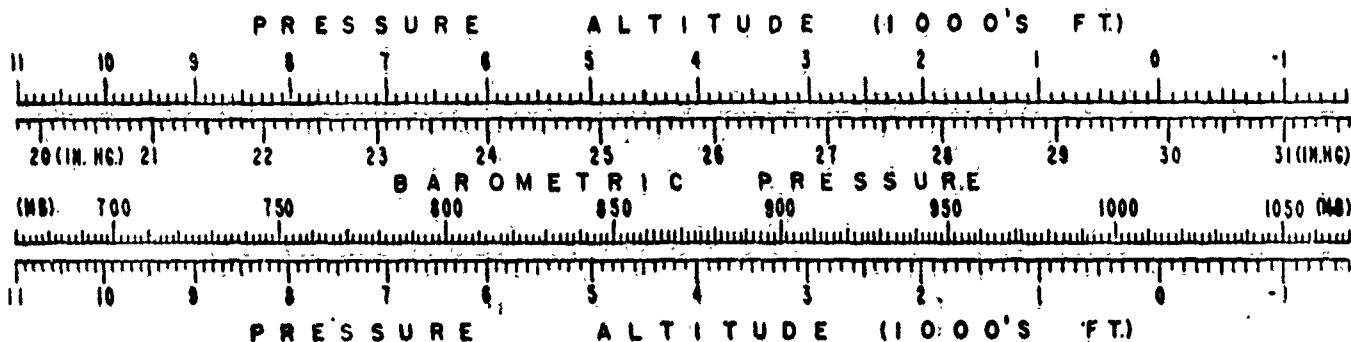
PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.
METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

24229

PORTLAND IAP OR

73-79

STATION		STATION NAME												YEARS	
HRS (LST.)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
3	MEAN	30.089	30.023	29.995	30.059	30.045	30.041	30.017	29.995	29.989	30.052	30.058	30.088	30.038	
	S.D.	.248	.249	.209	.190	.148	.117	.101	.104	.146	.183	.224	.256	.191	
	TOTAL OBS	216	197	217	209	217	209	217	217	210	215	209	217	2550	
4	MEAN	30.075	30.007	29.972	30.042	30.033	30.032	30.010	29.986	29.977	30.033	30.044	30.072	30.024	
	S.D.	.251	.252	.217	.192	.150	.118	.102	.105	.149	.186	.227	.255	.194	
	TOTAL OBS	217	196	217	210	216	210	217	217	210	217	210	217	2554	
7	MEAN	30.085	30.021	29.997	30.071	30.065	30.060	30.044	30.019	30.009	30.058	30.063	30.087	30.048	
	S.D.	.255	.256	.223	.194	.151	.121	.103	.107	.153	.190	.225	.253	.195	
	TOTAL OBS	217	196	217	210	217	209	216	217	210	217	210	217	2553	
10	MEAN	30.095	30.027	30.002	30.062	30.050	30.044	30.029	30.009	30.006	30.061	30.072	30.098	30.046	
	S.D.	.255	.259	.222	.197	.146	.120	.101	.106	.152	.193	.224	.249	.195	
	TOTAL OBS	217	197	215	210	216	210	217	217	210	217	210	217	2553	
13	MEAN	30.081	30.019	29.996	30.052	30.041	30.034	30.015	29.995	29.992	30.044	30.060	30.092	30.035	
	S.D.	.252	.256	.215	.189	.142	.119	.103	.106	.146	.186	.221	.242	.191	
	TOTAL OBS	216	197	217	209	217	210	217	215	209	217	208	217	2549	
16	MEAN	30.055	29.984	29.959	30.012	30.002	29.993	29.968	29.945	29.947	30.011	30.034	30.075	29.999	
	S.D.	.244	.251	.206	.184	.138	.120	.104	.109	.143	.175	.219	.237	.188	
	TOTAL OBS	217	197	217	210	217	210	217	217	210	217	210	216	2555	
19	MEAN	30.068	30.004	29.976	30.023	30.008	30.000	29.974	29.950	29.958	30.031	30.050	30.092	30.011	
	S.D.	.245	.247	.206	.181	.140	.118	.102	.106	.141	.173	.221	.247	.188	
	TOTAL OBS	217	197	215	210	216	210	216	217	208	217	210	216	2549	
22	MEAN	30.062	30.002	29.984	30.039	30.024	30.019	29.994	29.967	29.971	30.033	30.044	30.085	30.019	
	S.D.	.246	.247	.206	.183	.144	.117	.101	.106	.143	.179	.224	.249	.189	
	TOTAL OBS	217	197	217	210	217	210	217	217	210	217	210	216	2555	
ALL HOURS	MEAN	30.076	30.011	29.985	30.045	30.034	30.028	30.006	29.983	29.981	30.040	30.053	30.086	30.028	
	S.D.	.249	.252	.213	.190	.146	.121	.105	.109	.148	.183	.223	.247	.192	
	TOTAL OBS	1734	1574	1732	1678	1733	1678	1734	1734	1677	1734	1677	1733	20419	

GLOBAL CLIMATOLOGY BRANCH
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MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

24229 PORTLAND IAP OR

73-79

STATION		STATION NAME												YEARS	
HRS. (L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
1	MEAN S.D. TOTAL OBS	1019.8 8.462 217	1017.6 8.412 197	1016.7 7.072 217	1018.8 6.432 210	1018.4 5.009 217	1018.2 3.993 210	1017.4 3.401 217	1016.7 3.524 217	1016.5 4.967 210	1018.6 6.191 216	1018.8 7.596 210	1019.8 8.638 217	1018.1 6.485 2555	
4	MEAN S.D. TOTAL OBS	1019.8 8.492 217	1017.5 8.534 197	1016.4 7.346 217	1018.7 6.497 210	1018.4 5.115 217	1018.4 4.027 210	1017.7 3.427 217	1016.8 3.550 217	1016.5 5.058 210	1018.4 6.234 217	1018.7 7.668 210	1019.7 8.657 217	1018.1 6.560 2556	
7	MEAN S.D. TOTAL OBS	1019.7 8.646 217	1017.6 8.631 197	1016.8 7.561 217	1019.3 6.562 210	1019.1 5.093 217	1018.9 4.102 210	1018.3 3.448 217	1017.5 3.674 217	1017.2 5.189 210	1018.8 6.413 216	1019.0 7.617 210	1019.8 8.536 217	1018.5 6.602 2555	
10	MEAN S.D. TOTAL OBS	1020.5 8.849 217	1018.2 8.780 197	1017.4 7.488 217	1019.4 6.594 210	1019.0 4.957 217	1018.8 4.072 210	1018.3 3.429 217	1017.6 3.559 217	1017.5 5.144 210	1019.3 6.538 217	1019.7 7.579 210	1020.6 8.439 217	1018.9 6.609 2556	
13	MEAN S.D. TOTAL OBS	1019.7 8.530 217	1017.5 8.671 197	1016.7 7.255 217	1018.6 6.389 210	1018.2 4.780 217	1018.0 4.028 210	1017.4 3.496 217	1016.6 3.624 217	1016.5 4.952 209	1018.4 6.332 217	1018.9 7.490 210	1020.0 8.175 217	1018.0 6.477 2555	
16	MEAN S.D. TOTAL OBS	1019.1 8.267 217	1016.8 8.523 197	1015.9 6.977 217	1017.7 6.228 210	1017.3 4.699 217	1017.1 4.068 210	1016.2 3.535 217	1015.4 3.655 217	1015.5 4.855 210	1017.7 5.911 217	1018.4 7.438 210	1019.8 7.997 216	1017.2 6.375 2555	
19	MEAN S.D. TOTAL OBS	1019.2 8.292 217	1017.0 8.347 197	1016.0 6.939 217	1017.6 5.148 210	1017.2 4.703 217	1016.9 4.013 210	1015.9 3.457 217	1015.2 3.573 217	1015.5 4.796 210	1017.9 5.874 217	1018.6 7.456 210	1020.0 8.107 216	1017.2 6.367 2555	
22	MEAN S.D. TOTAL OBS	1019.4 8.336 217	1017.4 8.347 197	1016.7 6.978 217	1018.6 6.205 210	1018.1 4.893 217	1017.9 3.972 210	1017.1 3.410 217	1016.2 3.580 217	1016.3 4.853 210	1018.4 6.072 217	1018.8 7.563 210	1020.1 8.448 216	1017.9 6.404 2555	
ALL HOURS	MEAN S.D. TOTAL OBS	1019.7 8.454 1736	1017.4 8.522 1576	1016.6 7.205 1736	1018.6 6.399 1680	1018.2 4.940 1736	1018.0 4.085 1680	1017.3 3.538 1736	1016.5 3.668 1736	1016.4 5.011 1679	1018.4 6.206 1736	1018.9 7.545 1680	1020.0 8.365 1733	1018.0 6.505 20442	